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Administration

# Petroleum Supply Monthly

with data for September 2017

November 2017



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## Preface

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The Petroleum Supply Monthly (PSM) is the monthly component of a series of three publications produced by the Office of Petroleum and Biofuels Statistics of the U.S. Energy Information Administration (EIA). The other two components are the Weekly Petroleum Status Report (WPSR) and the Petroleum Supply Annual (PSA). Together these publications present comprehensive petroleum and biofuel supply data on a weekly, monthly and annual basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply. Included are: petroleum refiners, motor gasoline blenders, oxygenate producers, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of crude oil, petroleum products, and biofuels. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

### Scope of data

The PSM presents statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District levels, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources including federal and state agencies.

### Sections

- U.S. supply and disposition of crude oil, petroleum products, and biofuels
- Regional supply and disposition of crude oil, petroleum products, and biofuels
- Crude oil supply and disposition and production by state
- Natural Gas Processing
- Refinery Operations
- Imports of residual fuel oil by state of entry
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**Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2017**  
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments <sup>1</sup>	Stock Change <sup>2</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>3</sup>	
<b>Crude Oil<sup>4</sup></b>	<b>284,441</b>	--	--	<b>218,262</b>	<b>9,830</b>	<b>4,549</b>	<b>463,804</b>	<b>44,181</b>	<b>0</b>	<b>1,142,690</b>
<b>Hydrocarbon Gas Liquids</b>	<b>110,779</b>	<b>-650</b>	<b>14,364</b>	<b>4,957</b>	--	<b>-952</b>	<b>18,150</b>	<b>41,859</b>	<b>70,393</b>	<b>229,745</b>
Natural Gas Liquids	110,779	-650	7,414	4,141	--	-1,349	18,150	41,859	63,024	222,852
Ethane	39,065	--	90	--	--	1,650	--	6,123	31,382	53,457
Propane	37,072	--	8,349	3,372	--	-2,515	--	27,073	24,235	71,559
Normal Butane	9,728	--	-799	474	--	-1,438	5,737	3,608	1,496	64,181
Isobutane	10,665	--	-226	230	--	1,198	6,401	96	2,974	10,258
Natural Gasoline	14,249	-650	--	65	--	-244	6,012	4,959	2,937	23,397
Refinery Olefins	--	--	6,950	816	--	397	--	--	7,369	6,893
Ethylene	--	--	20	--	--	0	--	--	20	0
Propylene	--	--	7,051	562	--	-429	--	--	8,042	5,234
Butylene	--	--	-141	254	--	823	--	--	-710	1,627
Isobutylene	--	--	20	--	--	3	--	--	17	32
<b>Other Liquids</b>	--	<b>35,812</b>	--	<b>45,344</b>	<b>344</b>	<b>-363</b>	<b>66,479</b>	<b>14,939</b>	<b>444</b>	<b>319,559</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	35,816	--	1,441	1,745	-1,101	35,696	4,407	0	28,332
Hydrogen	--	--	--	--	6,264	--	6,264	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	1,728	--	308	-719	-927	--	2,244	0	1,412
Renewable Fuels (including Fuel Ethanol)	--	34,088	--	1,093	-3,793	-168	29,393	2,163	0	26,903
Fuel Ethanol <sup>5</sup>	--	30,581	--	254	-1,025	288	27,459	2,063	0	21,485
Renewable Fuels Except Fuel Ethanol	--	3,507	--	839	-2,768	-456	1,934	100	0	5,418
Other Hydrocarbons	--	--	--	40	-7	-6	39	--	0	17
Unfinished Oils	--	--	--	21,066	--	308	11,922	8,394	442	89,172
Motor Gasoline Blend.Comp. (MGBC) <sup>5</sup>	--	-4	--	22,837	-1,401	436	18,857	2,139	0	202,044
Reformulated	--	--	--	5,362	9,425	-1,121	15,900	8	0	45,954
Conventional	--	-4	--	17,475	-10,827	1,557	2,957	2,130	0	156,090
Aviation Gasoline Blend. Comp.	--	--	--	--	--	-6	4	--	2	11
<b>Finished Petroleum Products</b>	--	<b>123</b>	<b>564,559</b>	<b>22,648</b>	<b>5,105</b>	<b>-11,067</b>	--	<b>86,920</b>	<b>516,582</b>	<b>286,355</b>
Finished Motor Gasoline	--	123	293,547	1,242	2,426	-2,819	--	20,296	279,862	21,765
Reformulated	--	--	96,897	--	-7,638	-4	--	--	89,263	43
Conventional	--	123	196,650	1,242	10,064	-2,815	--	20,296	190,599	21,722
Finished Aviation Gasoline	--	--	352	8	--	68	--	--	292	919
Kerosene-Type Jet Fuel	--	--	49,923	6,189	--	3,219	--	3,715	49,178	43,320
Kerosene	--	--	164	314	--	-45	--	102	421	1,707
Distillate Fuel Oil <sup>5</sup>	--	--	137,108	3,365	2,679	-10,359	--	35,862	117,649	137,461
15 ppm sulfur and under	--	--	127,988	2,283	2,679	-10,048	--	30,517	112,481	118,953
Greater than 15 ppm to 500 ppm sulfur	--	--	3,292	30	--	-591	--	3,869	44	7,083
Greater than 500 ppm sulfur	--	--	5,828	1,052	--	280	--	1,477	5,123	11,425
Residual Fuel Oil <sup>6</sup>	--	--	13,793	6,129	--	1,372	--	9,333	9,217	35,881
Less than 0.31 percent sulfur	--	--	1,480	634	--	794	--	NA	NA	4,107
0.31 to 1.00 percent sulfur	--	--	1,720	795	--	951	--	NA	NA	7,155
Greater than 1.00 percent sulfur	--	--	10,593	4,700	--	-373	--	NA	NA	24,613
Petrochemical Feedstocks	--	--	7,079	2,154	--	-104	--	--	9,337	2,981
Naphtha for Petro. Feed. Use	--	--	3,862	1,400	--	-168	--	--	5,430	1,960
Other Oils for Petro. Feed. Use	--	--	3,217	754	--	64	--	--	3,907	1,021
Special Naphthas	--	--	834	473	--	-44	--	--	1,351	963
Lubricants	--	--	4,287	1,144	--	-552	--	2,744	3,239	9,612
Waxes	--	--	108	150	--	-55	--	118	195	750
Petroleum Coke	--	--	24,187	252	--	-22	--	13,924	10,537	8,301
Marketable	--	--	17,743	252	--	-22	--	13,924	4,093	8,301
Catalyst	--	--	6,444	--	--	--	--	--	6,444	--
Asphalt and Road Oil	--	--	11,330	1,225	--	-1,632	--	789	13,398	22,108
Still Gas	--	--	19,415	--	--	--	--	--	19,415	--
Miscellaneous Products	--	--	2,432	3	--	-94	--	36	2,493	587
<b>Total</b>	<b>395,220</b>	<b>35,285</b>	<b>578,923</b>	<b>291,211</b>	<b>15,279</b>	<b>-7,833</b>	<b>548,433</b>	<b>187,899</b>	<b>587,419</b>	<b>1,978,349</b>

-- = Not Applicable.

NA = No Data Reported.

NA = Not Available.

<sup>1</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>4</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>5</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

**Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2017**  
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments <sup>1</sup>	Stock Change <sup>2</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>3</sup>	
<b>Crude Oil<sup>4</sup></b>	<b>2,491,953</b>	--	--	<b>2,181,893</b>	<b>68,806</b>	<b>-36,724</b>	<b>4,518,024</b>	<b>261,352</b>	<b>0</b>	<b>1,142,690</b>
<b>Hydrocarbon Gas Liquids</b>	<b>997,109</b>	<b>-5,883</b>	<b>192,242</b>	<b>50,247</b>	--	<b>29,597</b>	<b>142,985</b>	<b>371,767</b>	<b>689,366</b>	<b>229,745</b>
Natural Gas Liquids	997,109	-5,883	116,723	42,184	--	32,049	142,985	371,767	603,332	222,852
Ethane	369,808	--	1,381	--	--	2,770	--	46,682	321,737	53,457
Propane	327,685	--	82,573	33,560	--	-5,561	--	238,502	210,877	71,559
Normal Butane	81,901	--	33,687	3,221	--	34,342	38,048	35,340	11,079	64,181
Isobutane	95,724	--	-918	2,674	--	2,133	57,819	1,285	36,243	10,258
Natural Gasoline	121,991	-5,883	--	2,729	--	-1,635	47,118	49,959	23,395	23,397
Refinery Olefins	--	--	75,519	8,063	--	-2,452	--	--	86,034	6,893
Ethylene	--	--	189	--	--	0	--	--	189	0
Propylene	--	--	76,526	6,350	--	-1,742	--	--	84,618	5,234
Butylene	--	--	-1,409	1,713	--	-742	--	--	1,046	1,627
Isobutylene	--	--	213	--	--	32	--	--	181	32
<b>Other Liquids</b>	--	<b>326,256</b>	--	<b>362,774</b>	<b>19,905</b>	<b>1,454</b>	<b>573,823</b>	<b>131,122</b>	<b>2,537</b>	<b>319,559</b>
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	326,293	--	16,374	30,435	-69	329,050	44,121	0	28,332
Hydrogen	--	--	--	--	59,847	--	59,847	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	18,996	--	2,992	-3,363	-65	318	18,372	0	1,412
Renewable Fuels (including Fuel Ethanol)	--	307,297	--	13,219	-26,214	-4	268,557	25,750	0	26,903
Fuel Ethanol <sup>5</sup>	--	279,906	--	1,259	-4,592	1,954	250,796	23,823	0	21,485
Renewable Fuels Except Fuel Ethanol	--	27,391	--	11,960	-21,621	-1,958	17,761	1,927	0	5,418
Other Hydrocarbons	--	--	--	163	165	0	328	--	0	17
Unfinished Oils	--	--	--	167,448	--	8,590	88,330	67,919	2,609	89,172
Motor Gasoline Blend.Comp. (MGBC) <sup>5</sup>	--	-37	--	178,952	-10,530	-7,069	156,373	19,081	0	202,044
Reformulated	--	-1	--	61,004	43,046	-6,195	110,171	73	0	45,954
Conventional	--	-36	--	117,948	-53,576	-874	46,202	19,008	0	156,090
Aviation Gasoline Blend. Comp.	--	--	--	--	--	2	70	--	-72	11
<b>Finished Petroleum Products</b>	--	<b>901</b>	<b>5,343,110</b>	<b>181,482</b>	<b>37,526</b>	<b>-43,316</b>	--	<b>888,003</b>	<b>4,718,333</b>	<b>286,355</b>
Finished Motor Gasoline	--	901	2,703,891	9,392	15,122	-6,845	--	183,893	2,552,258	21,765
Reformulated	--	--	886,071	--	-36,909	-4	--	--	849,166	43
Conventional	--	901	1,817,820	9,392	52,031	-6,841	--	183,893	1,703,092	21,722
Finished Aviation Gasoline	--	--	2,958	88	--	-75	--	--	3,121	919
Kerosene-Type Jet Fuel	--	--	465,927	41,177	--	544	--	51,977	454,583	43,320
Kerosene	--	--	1,352	852	--	-554	--	1,291	1,467	1,707
Distillate Fuel Oil <sup>5</sup>	--	--	1,353,540	35,926	22,404	-27,995	--	372,391	1,067,474	137,461
15 ppm sulfur and under	--	--	1,262,764	23,763	22,404	-24,067	--	314,849	1,018,149	118,953
Greater than 15 ppm to 500 ppm sulfur	--	--	31,838	344	--	-1,739	--	32,517	1,404	7,083
Greater than 500 ppm sulfur	--	--	58,938	11,819	--	-2,189	--	25,026	47,920	11,425
Residual Fuel Oil <sup>6</sup>	--	--	118,712	51,829	--	-5,662	--	81,615	94,588	35,881
Less than 0.31 percent sulfur	--	--	15,231	3,543	--	636	--	NA	NA	4,107
0.31 to 1.00 percent sulfur	--	--	14,521	5,567	--	-1,917	--	NA	NA	7,155
Greater than 1.00 percent sulfur	--	--	88,960	42,719	--	-4,381	--	NA	NA	24,613
Petrochemical Feedstocks	--	--	85,274	12,481	--	-259	--	--	98,014	2,981
Naphtha for Petro. Feed. Use	--	--	54,056	8,515	--	-51	--	--	62,622	1,960
Other Oils for Petro. Feed. Use	--	--	31,218	3,966	--	-208	--	--	35,392	1,021
Special Naphthas	--	--	9,794	3,820	--	-255	--	--	13,869	963
Lubricants	--	--	47,095	11,273	--	-2,763	--	31,455	29,676	9,612
Waxes	--	--	1,361	1,272	--	79	--	1,105	1,449	750
Petroleum Coke	--	--	246,458	2,370	--	1,318	--	159,341	88,169	8,301
Marketable	--	--	184,229	2,370	--	1,318	--	159,341	25,940	8,301
Catalyst	--	--	62,229	--	--	--	--	--	62,229	--
Asphalt and Road Oil	--	--	92,845	10,968	--	-758	--	4,609	99,962	22,108
Still Gas	--	--	188,260	--	--	--	--	--	188,260	--
Miscellaneous Products	--	--	25,643	34	--	-91	--	324	25,444	587
<b>Total</b>	<b>3,489,062</b>	<b>321,274</b>	<b>5,535,352</b>	<b>2,776,396</b>	<b>126,238</b>	<b>-48,989</b>	<b>5,234,832</b>	<b>1,652,244</b>	<b>5,410,235</b>	<b>1,978,349</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>4</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>5</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

**Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2017**  
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments <sup>1</sup>	Stock Change <sup>2</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>3</sup>
<b>Crude Oil<sup>4</sup></b> .....	<b>9,481</b>	--	--	<b>7,275</b>	<b>328</b>	<b>152</b>	<b>15,460</b>	<b>1,473</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>3,693</b>	<b>-22</b>	<b>479</b>	<b>165</b>	--	<b>-32</b>	<b>605</b>	<b>1,395</b>	<b>2,346</b>
Natural Gas Liquids .....	3,693	-22	247	138	--	-45	605	1,395	2,101
Ethane .....	1,302	--	3	--	--	55	--	204	1,046
Propane .....	1,236	--	278	112	--	-84	--	902	808
Normal Butane .....	324	--	-27	16	--	-48	191	120	50
Isobutane .....	356	--	-8	8	--	40	213	3	99
Natural Gasoline .....	475	-22	--	2	--	-8	200	165	98
Refinery Olefins .....	--	--	232	27	--	13	--	--	246
Ethylene .....	--	--	1	--	--	0	--	--	1
Propylene .....	--	--	235	19	--	-14	--	--	268
Butylene .....	--	--	-5	8	--	27	--	--	-24
Isobutylene .....	--	--	1	--	--	0	--	--	1
<b>Other Liquids</b> .....	--	<b>1,194</b>	--	<b>1,511</b>	<b>11</b>	<b>-12</b>	<b>2,216</b>	<b>498</b>	<b>15</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	--	1,194	--	48	58	-37	1,190	147	0
Hydrogen .....	--	--	--	--	209	--	209	--	0
Oxygenates (excluding Fuel Ethanol) .....	--	58	--	10	-24	-31	--	75	0
Renewable Fuels (including Fuel Ethanol) .....	--	1,136	--	36	-126	-6	980	72	0
Fuel Ethanol <sup>5</sup> .....	--	1,019	--	8	-34	10	915	69	0
Renewable Fuels Except Fuel Ethanol .....	--	117	--	28	-92	-15	64	3	0
Other Hydrocarbons .....	--	--	--	1	0	0	1	--	0
Unfinished Oils .....	--	--	--	702	--	10	397	280	15
Motor Gasoline Blend.Comp. (MGBC) <sup>5</sup> .....	--	0	--	761	-47	15	629	71	0
Reformulated .....	--	--	--	179	314	-37	530	0	0
Conventional .....	--	0	--	583	-361	52	99	71	0
Aviation Gasoline Blend. Comp. ....	--	--	--	--	--	0	0	--	0
<b>Finished Petroleum Products</b> .....	--	<b>4</b>	<b>18,819</b>	<b>755</b>	<b>170</b>	<b>-369</b>	--	<b>2,897</b>	<b>17,219</b>
Finished Motor Gasoline .....	--	4	9,785	41	81	-94	--	677	9,329
Reformulated .....	--	--	3,230	--	-255	0	--	--	2,975
Conventional .....	--	4	6,555	41	335	-94	--	677	6,353
Finished Aviation Gasoline .....	--	--	12	0	--	2	--	--	10
Kerosene-Type Jet Fuel .....	--	--	1,664	206	--	107	--	124	1,639
Kerosene .....	--	--	5	10	--	-2	--	3	14
Distillate Fuel Oil <sup>5</sup> .....	--	--	4,570	112	89	-345	--	1,195	3,922
15 ppm sulfur and under .....	--	--	4,266	76	89	-335	--	1,017	3,749
Greater than 15 ppm to 500 ppm sulfur .....	--	--	110	1	--	-20	--	129	1
Greater than 500 ppm sulfur .....	--	--	194	35	--	9	--	49	171
Residual Fuel Oil <sup>6</sup> .....	--	--	460	204	--	46	--	311	307
Less than 0.31 percent sulfur .....	--	--	49	21	--	26	--	NA	NA
0.31 to 1.00 percent sulfur .....	--	--	57	27	--	32	--	NA	NA
Greater than 1.00 percent sulfur .....	--	--	353	157	--	-12	--	NA	NA
Petrochemical Feedstocks .....	--	--	236	72	--	-3	--	--	311
Naphtha for Petro. Feed. Use .....	--	--	129	47	--	-6	--	--	181
Other Oils for Petro. Feed. Use .....	--	--	107	25	--	2	--	--	130
Special Naphthas .....	--	--	28	16	--	-1	--	--	45
Lubricants .....	--	--	143	38	--	-18	--	91	108
Waxes .....	--	--	4	5	--	-2	--	4	6
Petroleum Coke .....	--	--	806	8	--	-1	--	464	351
Marketable .....	--	--	591	8	--	-1	--	464	136
Catalyst .....	--	--	215	--	--	--	--	--	215
Asphalt and Road Oil .....	--	--	378	41	--	-54	--	26	447
Still Gas .....	--	--	647	--	--	--	--	--	647
Miscellaneous Products .....	--	--	81	0	--	-3	--	1	83
<b>Total</b> .....	<b>13,174</b>	<b>1,176</b>	<b>19,297</b>	<b>9,707</b>	<b>509</b>	<b>-261</b>	<b>18,281</b>	<b>6,263</b>	<b>19,581</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>5</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

<sup>4</sup> Includes value for the Strategic Petroleum Reserve. See Table 13 for the breakout of Commercial Crude Oil.



**Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2017**  
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments <sup>1</sup>	Stock Change <sup>2</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>3</sup>
<b>Crude Oil<sup>4</sup></b> .....	<b>9,128</b>	--	--	<b>7,992</b>	<b>252</b>	<b>-135</b>	<b>16,550</b>	<b>957</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>3,652</b>	<b>-22</b>	<b>704</b>	<b>184</b>	--	<b>108</b>	<b>524</b>	<b>1,362</b>	<b>2,525</b>
Natural Gas Liquids .....	3,652	-22	428	155	--	117	524	1,362	2,210
Ethane .....	1,355	--	--	--	--	10	--	171	1,179
Propane .....	1,200	--	302	123	--	-20	--	874	772
Normal Butane .....	300	--	123	12	--	126	139	129	41
Isobutane .....	351	--	-297	10	--	8	212	5	133
Natural Gasoline .....	447	-22	--	10	--	-6	173	183	86
Refinery Olefins .....	--	--	277	30	--	-9	--	--	315
Ethylene .....	--	--	1	--	--	0	--	--	1
Propylene .....	--	--	280	23	--	-6	--	--	310
Butylene .....	--	--	-5	6	--	-3	--	--	4
Isobutylene .....	--	--	437	--	--	0	--	--	1
<b>Other Liquids</b> .....	--	<b>1,195</b>	--	<b>1,329</b>	<b>73</b>	<b>5</b>	<b>2,102</b>	<b>480</b>	<b>9</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	--	1,195	--	60	111	0	1,205	162	0
Hydrogen .....	--	--	--	--	219	--	219	--	0
Oxygenates (excluding Fuel Ethanol) .....	--	70	--	11	-12	0	1	67	0
Renewable Fuels (including Fuel Ethanol) .....	--	1,126	--	48	-96	0	984	94	0
Fuel Ethanol <sup>5</sup> .....	--	1,025	--	5	-17	7	919	87	0
Renewable Fuels Except Fuel Ethanol .....	--	100	--	44	-79	-7	65	7	0
Other Hydrocarbons .....	--	--	--	1	1	0	1	--	0
Unfinished Oils .....	--	--	--	613	--	31	324	249	10
Motor Gasoline Blend.Comp. (MGBC) <sup>5</sup> .....	--	0	--	656	-39	-26	573	70	0
Reformulated .....	--	0	--	223	158	-23	404	0	0
Conventional .....	--	0	--	432	-196	-3	169	70	0
Aviation Gasoline Blend. Comp. ....	--	--	--	--	--	0	0	--	0
<b>Finished Petroleum Products</b> .....	--	<b>3</b>	<b>19,572</b>	<b>665</b>	<b>137</b>	<b>-159</b>	--	<b>3,253</b>	<b>17,283</b>
Finished Motor Gasoline .....	--	3	9,904	34	55	-25	--	674	9,349
Reformulated .....	--	--	3,246	--	-135	0	--	--	3,110
Conventional .....	--	3	6,659	34	191	-25	--	674	6,238
Finished Aviation Gasoline .....	--	--	11	0	--	0	--	--	11
Kerosene-Type Jet Fuel .....	--	--	1,707	151	--	2	--	190	1,665
Kerosene .....	--	--	5	3	--	-2	--	5	5
Distillate Fuel Oil <sup>5</sup> .....	--	--	4,958	132	82	-103	--	1,364	3,910
15 ppm sulfur and under .....	--	--	4,626	87	82	-88	--	1,153	3,729
Greater than 15 ppm to 500 ppm sulfur .....	--	--	117	1	--	-6	--	119	5
Greater than 500 ppm sulfur .....	--	--	216	43	--	-8	--	92	176
Residual Fuel Oil <sup>6</sup> .....	--	--	435	190	--	-21	--	299	346
Less than 0.31 percent sulfur .....	--	--	56	13	--	2	--	NA	NA
0.31 to 1.00 percent sulfur .....	--	--	53	20	--	-7	--	NA	NA
Greater than 1.00 percent sulfur .....	--	--	326	156	--	-16	--	NA	NA
Petrochemical Feedstocks .....	--	--	312	46	--	-1	--	--	359
Naphtha for Petro. Feed. Use .....	--	--	198	31	--	0	--	--	229
Other Oils for Petro. Feed. Use .....	--	--	114	15	--	-1	--	--	130
Special Naphthas .....	--	--	36	14	--	-1	--	--	51
Lubricants .....	--	--	173	41	--	-10	--	115	109
Waxes .....	--	--	5	5	--	0	--	4	5
Petroleum Coke .....	--	--	903	9	--	5	--	584	323
Marketable .....	--	--	675	9	--	5	--	584	95
Catalyst .....	--	--	228	--	--	--	--	--	228
Asphalt and Road Oil .....	--	--	340	40	--	-3	--	17	366
Still Gas .....	--	--	690	--	--	--	--	--	690
Miscellaneous Products .....	--	--	94	0	--	0	--	1	93
<b>Total</b> .....	<b>12,780</b>	<b>1,177</b>	<b>20,276</b>	<b>10,170</b>	<b>462</b>	<b>-179</b>	<b>19,175</b>	<b>6,052</b>	<b>19,818</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>5</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

<sup>4</sup> Includes value for the Strategic Petroleum Reserve. See Table 13 for the breakout of Commercial Crude Oil.

**Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2017**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>1,472</b>	--	--	<b>24,050</b>	<b>960</b>	<b>1,322</b>	<b>-5,365</b>	<b>33,169</b>	--	<b>0</b>	<b>11,969</b>
<b>Hydrocarbon Gas Liquids</b>	<b>12,951</b>	<b>-14</b>	<b>354</b>	<b>1,175</b>	<b>155</b>	--	<b>-665</b>	<b>1,607</b>	<b>3,709</b>	<b>9,970</b>	<b>8,876</b>
Natural Gas Liquids	12,951	-14	-12	885	-238	--	-849	1,607	3,709	9,105	8,532
Ethane	5,140	--	--	--	--	--	69	--	996	300	476
Propane	4,486	--	697	731	3,001	--	-394	--	2,274	7,035	5,403
Normal Butane	1,356	--	-670	122	420	--	-399	981	379	267	2,325
Isobutane	680	--	-39	32	127	--	-9	457	0	352	138
Natural Gasoline	1,289	-14	--	--	-11	--	-116	169	60	1,151	190
Refinery Olefins	--	--	366	290	--	--	184	--	--	865	344
Ethylene	--	--	17	--	--	--	--	--	--	17	--
Propylene	--	--	394	290	--	--	21	--	--	1,056	142
Butylene	--	--	-78	--	--	--	159	--	--	-237	170
Isobutylene	--	--	33	--	--	--	4	--	--	29	32
<b>Other Liquids</b>	--	<b>936</b>	--	<b>22,061</b>	<b>50,819</b>	<b>3,907</b>	<b>-1,130</b>	<b>78,125</b>	<b>150</b>	<b>579</b>	<b>68,639</b>
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	939	--	42	10,334	-1,212	-215	10,288	31	0	9,104
Hydrogen	--	--	--	--	--	85	--	85	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	939	--	42	10,334	-1,298	-215	10,203	29	0	9,104
Fuel Ethanol	--	749	--	--	10,221	-650	398	9,898	24	0	7,073
Renewable Fuels Except Fuel Ethanol	--	190	--	42	113	-648	-613	305	5	0	2,031
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	2,509	-17	--	-296	2,181	28	579	4,892
Motor Gasoline Blend.Comp. (MGBC)	--	-3	--	19,510	40,502	5,119	-619	65,656	91	0	54,643
Reformulated	--	--	--	5,362	6,266	2,507	-1,428	15,563	0	0	16,521
Conventional	--	-3	--	14,148	34,236	2,612	809	50,093	91	0	38,122
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>114,100</b>	<b>10,254</b>	<b>35,996</b>	<b>-3,821</b>	<b>-4,651</b>	--	<b>8,239</b>	<b>152,941</b>	<b>78,678</b>
Finished Motor Gasoline	--	--	95,349	829	4,666	-4,469	-993	--	624	96,744	4,162
Reformulated	--	--	38,488	--	--	-298	-8	--	--	38,198	24
Conventional	--	--	56,861	829	4,666	-4,171	-985	--	624	58,546	4,138
Finished Aviation Gasoline	--	--	--	1	1,374	--	-40	--	--	1,415	134
Kerosene-Type Jet Fuel	--	--	3,150	3,503	10,617	--	1,968	--	13	15,289	11,015
Kerosene	--	--	182	314	--	--	29	--	2	465	1,471
Distillate Fuel Oil <sup>6</sup>	--	--	9,786	2,248	16,881	648	-5,121	--	3,997	30,687	46,988
15 ppm sulfur and under	--	--	8,899	1,370	15,368	648	-5,094	--	3,870	27,508	37,598
Greater than 15 ppm to 500 ppm sulfur	--	--	114	30	828	--	-306	--	126	1,152	4,812
Greater than 500 ppm sulfur	--	--	773	848	685	--	279	--	0	2,027	4,578
Residual Fuel Oil <sup>7</sup>	--	--	1,533	2,289	340	--	-8	--	2,711	1,459	8,066
Less than 0.31 percent sulfur	--	--	212	85	--	--	70	--	NA	NA	1,789
0.31 to 1.00 percent sulfur	--	--	514	634	--	--	-41	--	NA	NA	1,491
Greater than 1.00 percent sulfur	--	--	807	1,570	340	--	-37	--	NA	NA	4,786
Petrochemical Feedstocks	--	--	117	--	-19	--	-36	--	--	134	87
Naphtha for Petro. Feed. Use	--	--	117	--	--	--	-36	--	--	153	87
Other Oils for Petro. Feed. Use	--	--	--	--	-19	--	--	--	--	-19	--
Special Naphthas	--	--	23	--	--	--	-1	--	--	24	39
Lubricants	--	--	436	174	368	--	-85	--	170	893	931
Waxes	--	--	-5	79	--	--	0	--	66	8	485
Petroleum Coke	--	--	856	4	549	--	--	--	567	843	--
Marketable	--	--	184	4	549	--	--	--	567	171	--
Catalyst	--	--	672	--	--	--	--	--	--	672	--
Asphalt and Road Oil	--	--	1,253	813	1,219	--	-360	--	81	3,564	5,280
Still Gas	--	--	1,344	--	--	--	--	--	--	1,344	--
Miscellaneous Products	--	--	76	--	--	--	-4	--	9	71	20
<b>Total</b>	<b>14,423</b>	<b>922</b>	<b>114,454</b>	<b>57,540</b>	<b>87,930</b>	<b>1,408</b>	<b>-11,811</b>	<b>112,901</b>	<b>12,098</b>	<b>163,489</b>	<b>168,162</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly

**Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2017**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>12,835</b>	--	--	<b>246,912</b>	<b>26,497</b>	<b>5,337</b>	<b>-276</b>	<b>287,852</b>	<b>4,004</b>	<b>0</b>	<b>11,969</b>
<b>Hydrocarbon Gas Liquids</b>	<b>113,095</b>	<b>-133</b>	<b>10,097</b>	<b>12,849</b>	<b>-6,129</b>	--	<b>1,109</b>	<b>8,029</b>	<b>32,929</b>	<b>87,712</b>	<b>8,876</b>
Natural Gas Liquids	113,095	-133	6,303	9,767	-8,724	--	1,024	8,029	32,929	78,326	--
Ethane	47,268	--	--	--	--	--	36	--	10,057	637	--
Propane	37,799	--	5,873	8,833	24,868	--	-452	--	12,822	65,003	--
Normal Butane	11,386	--	727	393	1,562	--	1,453	3,642	1,511	7,462	--
Isobutane	5,698	--	-297	541	1,477	--	-20	3,555	5	3,879	--
Natural Gasoline	10,944	-133	--	--	-93	--	7	832	8,534	1,345	--
Refinery Olefins	--	--	3,794	3,082	--	--	85	--	--	9,386	--
Ethylene	--	--	126	--	--	--	--	--	--	126	--
Propylene	--	--	3,741	3,075	--	--	-17	--	--	9,428	--
Butylene	--	--	-510	7	--	--	70	--	--	-573	--
Isobutylene	--	--	437	--	--	--	32	--	--	405	--
<b>Other Liquids</b>	--	<b>8,480</b>	--	<b>177,401</b>	<b>509,179</b>	<b>47,136</b>	<b>-4,470</b>	<b>747,528</b>	<b>12,031</b>	<b>-12,894</b>	<b>68,639</b>
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	8,507	--	5,597	85,304	-3,568	-6	95,163	683	0	9,104
Hydrogen	--	--	--	--	--	886	--	886	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	10	--	--	10	0	--
Renewable Fuels (including Fuel Ethanol)	--	8,507	--	5,595	85,304	-4,463	-6	94,277	672	0	9,104
Fuel Ethanol	--	7,111	--	31	84,202	1,313	787	91,271	599	0	7,073
Renewable Fuels Except Fuel Ethanol	--	1,396	--	5,564	1,102	-5,776	-793	3,006	73	0	2,031
Other Hydrocarbons	--	--	--	2	--	-2	--	--	--	0	--
Unfinished Oils	--	--	--	18,252	-322	--	420	19,465	10,939	-12,894	4,892
Motor Gasoline Blend.Comp. (MGBC)	--	-27	--	153,552	424,197	50,704	-4,884	632,900	410	0	54,643
Reformulated	--	--	--	60,478	74,413	22,628	-3,102	160,617	4	0	16,521
Conventional	--	-27	--	93,074	349,784	28,076	-1,782	472,283	406	0	38,122
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>1,046,523</b>	<b>83,825</b>	<b>408,497</b>	<b>-46,242</b>	<b>-24,081</b>	--	<b>49,572</b>	<b>1,467,112</b>	<b>78,678</b>
Finished Motor Gasoline	--	--	880,873	7,554	63,129	-52,017	-1,330	--	2,846	898,023	4,162
Reformulated	--	--	351,910	--	--	-15,987	-7	--	--	335,930	24
Conventional	--	--	528,963	7,554	63,129	-36,030	-1,323	--	2,846	562,093	4,138
Finished Aviation Gasoline	--	--	--	43	10,420	--	-30	--	--	10,493	134
Kerosene-Type Jet Fuel	--	--	24,549	15,459	120,760	--	-63	--	1,143	159,688	11,015
Kerosene	--	--	810	797	--	--	-300	--	642	1,265	1,471
Distillate Fuel Oil <sup>6</sup>	--	--	89,956	29,050	197,073	5,775	-19,963	--	22,924	318,893	46,988
15 ppm sulfur and under	--	--	76,328	19,703	181,024	5,775	-15,859	--	19,822	278,867	37,598
Greater than 15 ppm to 500 ppm sulfur	--	--	1,686	344	2,709	--	-1,576	--	2,999	3,316	4,812
Greater than 500 ppm sulfur	--	--	11,942	9,003	13,340	--	-2,528	--	103	36,710	4,578
Residual Fuel Oil <sup>7</sup>	--	--	12,615	20,355	349	--	-2,930	--	13,236	23,013	8,066
Less than 0.31 percent sulfur	--	--	3,277	1,209	-103	--	789	--	NA	NA	1,789
0.31 to 1.00 percent sulfur	--	--	3,627	2,799	-17	--	-1,152	--	NA	NA	1,491
Greater than 1.00 percent sulfur	--	--	5,711	16,347	469	--	-2,567	--	NA	NA	4,786
Petrochemical Feedstocks	--	--	1,023	9	-214	--	-72	--	--	890	87
Naphtha for Petro. Feed. Use	--	--	1,023	9	--	--	-72	--	--	1,104	87
Other Oils for Petro. Feed. Use	--	--	--	--	-214	--	--	--	--	-214	--
Special Naphthas	--	--	185	--	--	--	17	--	--	168	39
Lubricants	--	--	3,564	2,060	4,510	--	-277	--	1,794	8,617	931
Waxes	--	--	44	665	9	--	108	--	618	-8	485
Petroleum Coke	--	--	9,336	213	4,392	--	--	--	5,552	8,388	--
Marketable	--	--	3,237	213	4,392	--	--	--	5,552	2,289	--
Catalyst	--	--	6,099	--	--	--	--	--	--	6,099	--
Asphalt and Road Oil	--	--	11,019	7,620	8,069	--	776	--	711	25,221	5,280
Still Gas	--	--	11,698	--	--	--	--	--	--	11,698	--
Miscellaneous Products	--	--	851	--	--	--	-17	--	105	763	20
<b>Total</b>	<b>125,930</b>	<b>8,347</b>	<b>1,056,620</b>	<b>520,987</b>	<b>938,044</b>	<b>6,230</b>	<b>-27,718</b>	<b>1,043,409</b>	<b>98,536</b>	<b>1,541,930</b>	<b>168,162</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly

**Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2017**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b> .....	<b>49</b>	--	--	<b>802</b>	<b>32</b>	<b>44</b>	<b>-179</b>	<b>1,106</b>	--	<b>0</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>432</b>	<b>0</b>	<b>12</b>	<b>39</b>	<b>5</b>	--	<b>-22</b>	<b>54</b>	<b>124</b>	<b>332</b>
Natural Gas Liquids .....	432	0	0	30	-8	--	-28	54	124	304
Ethane .....	171	--	--	--	--	--	2	--	33	10
Propane .....	150	--	23	24	100	--	-13	--	--	234
Normal Butane .....	45	--	-22	4	14	--	-13	33	13	9
Isobutane .....	23	--	-1	1	4	--	0	15	0	12
Natural Gasoline .....	43	0	--	--	0	--	-4	6	2	38
Refinery Olefins .....	--	--	12	10	--	--	6	--	--	29
Ethylene .....	--	--	1	--	--	--	--	--	--	1
Propylene .....	--	--	13	10	13	--	1	--	--	35
Butylene .....	--	--	-3	--	--	--	5	--	--	-8
Isobutylene .....	--	--	1	--	--	--	0	--	--	1
<b>Other Liquids</b> .....	--	<b>31</b>	--	<b>735</b>	<b>1,694</b>	<b>130</b>	<b>-38</b>	<b>2,604</b>	<b>5</b>	<b>19</b>
Hydrogen/Oxygenates/Renewables/										
Other Hydrocarbons .....	--	31	--	1	344	-40	-7	343	1	0
Hydrogen .....	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol) .....	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol) ...	--	31	--	1	344	-43	-7	340	1	0
Fuel Ethanol <sup>6</sup> .....	--	25	--	--	341	-22	13	330	1	0
Renewable Fuels Except Fuel Ethanol .....	--	6	--	1	4	-22	-20	10	0	0
Other Hydrocarbons .....	--	--	--	--	--	--	--	--	--	--
Unfinished Oils .....	--	--	--	84	-1	--	-10	73	1	19
Motor Gasoline Blend.Comp. (MGBC) <sup>6</sup> .....	--	0	--	650	1,350	171	-21	2,189	3	0
Reformulated .....	--	--	--	179	209	84	-48	519	0	0
Conventional .....	--	0	--	472	1,141	87	27	1,670	3	0
Aviation Gasoline Blend. Comp. ....	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b> .....	--	--	<b>3,803</b>	<b>342</b>	<b>1,200</b>	<b>-127</b>	<b>-155</b>	--	<b>275</b>	<b>5,098</b>
Finished Motor Gasoline .....	--	--	3,178	28	156	-149	-33	--	21	3,225
Reformulated .....	--	--	1,283	--	--	-10	0	--	--	1,273
Conventional .....	--	--	1,895	28	156	-139	-33	--	21	1,952
Finished Aviation Gasoline .....	--	--	--	0	46	--	-1	--	--	47
Kerosene-Type Jet Fuel .....	--	--	105	117	354	--	66	--	0	510
Kerosene .....	--	--	6	10	--	--	1	--	0	16
Distillate Fuel Oil <sup>6</sup> .....	--	--	326	75	563	22	-171	--	133	1,023
15 ppm sulfur and under .....	--	--	297	46	512	22	-170	--	129	917
Greater than 15 ppm to 500 ppm sulfur .....	--	--	4	1	28	--	-10	--	4	38
Greater than 500 ppm sulfur .....	--	--	26	28	23	--	9	--	0	68
Residual Fuel Oil <sup>7</sup> .....	--	--	51	76	11	--	0	--	90	49
Less than 0.31 percent sulfur .....	--	--	7	3	--	--	2	--	NA	NA
0.31 to 1.00 percent sulfur .....	--	--	17	21	--	--	-1	--	NA	NA
Greater than 1.00 percent sulfur .....	--	--	27	52	11	--	-1	--	NA	NA
Petrochemical Feedstocks .....	--	--	4	--	-1	--	-1	--	--	4
Naphtha for Petro. Feed. Use .....	--	--	4	--	--	--	-1	--	--	5
Other Oils for Petro. Feed. Use .....	--	--	--	--	-1	--	--	--	--	-1
Special Naphthas .....	--	--	1	--	--	--	0	--	--	1
Lubricants .....	--	--	15	6	12	--	-3	--	6	30
Waxes .....	--	--	0	3	--	--	0	--	2	0
Petroleum Coke .....	--	--	29	0	18	--	--	--	19	28
Marketable .....	--	--	6	0	18	--	--	--	19	6
Catalyst .....	--	--	22	--	--	--	--	--	--	22
Asphalt and Road Oil .....	--	--	42	27	41	--	-12	--	3	119
Still Gas .....	--	--	45	--	--	--	--	--	--	45
Miscellaneous Products .....	--	--	3	--	--	--	0	--	0	2
<b>Total</b> .....	<b>481</b>	<b>31</b>	<b>3,815</b>	<b>1,918</b>	<b>2,931</b>	<b>47</b>	<b>-394</b>	<b>3,763</b>	<b>403</b>	<b>5,450</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report" and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy.

**Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2017**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>47</b>	<b>--</b>	<b>--</b>	<b>904</b>	<b>97</b>	<b>20</b>	<b>-1</b>	<b>1,054</b>	<b>15</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>414</b>	<b>0</b>	<b>37</b>	<b>47</b>	<b>-22</b>	<b>--</b>	<b>4</b>	<b>29</b>	<b>121</b>	<b>321</b>
Natural Gas Liquids	414	0	23	36	-32	--	4	29	121	287
Ethane	173	--	--	--	--	--	0	--	37	2
Propane	138	--	22	32	91	--	-2	--	--	238
Normal Butane	42	--	3	1	6	--	5	13	6	27
Isobutane	21	--	-1	2	5	--	0	13	0	14
Natural Gasoline	40	0	--	--	0	--	0	3	31	5
Refinery Olefins	--	--	14	11	--	--	0	--	--	34
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	14	11	10	--	0	--	--	35
Butylene	--	--	-2	0	--	--	0	--	--	-2
Isobutylene	--	--	2	--	--	--	0	--	--	1
<b>Other Liquids</b>	<b>--</b>	<b>31</b>	<b>--</b>	<b>650</b>	<b>1,865</b>	<b>173</b>	<b>-16</b>	<b>2,738</b>	<b>44</b>	<b>-47</b>
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	31	--	21	312	-13	0	349	3	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	31	--	20	312	-16	0	345	2	0
Fuel Ethanol <sup>6</sup>	--	26	--	0	308	5	3	334	2	0
Renewable Fuels Except Fuel Ethanol	--	5	--	20	4	-21	-3	11	0	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	67	-1	--	2	71	40	-47
Motor Gasoline Blend.Comp. (MGBC) <sup>6</sup>	--	0	--	562	1,554	186	-18	2,318	2	0
Reformulated	--	--	--	222	273	83	-11	588	0	0
Conventional	--	0	--	341	1,281	103	-7	1,730	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	<b>--</b>	<b>--</b>	<b>3,833</b>	<b>307</b>	<b>1,496</b>	<b>-169</b>	<b>-88</b>	<b>--</b>	<b>182</b>	<b>5,374</b>
Finished Motor Gasoline	--	--	3,227	28	231	-191	-5	--	10	3,289
Reformulated	--	--	1,289	--	--	-59	0	--	--	1,231
Conventional	--	--	1,938	28	231	-132	-5	--	10	2,059
Finished Aviation Gasoline	--	--	--	0	38	--	0	--	--	38
Kerosene-Type Jet Fuel	--	--	90	57	442	--	0	--	4	585
Kerosene	--	--	3	3	--	--	-1	--	2	5
Distillate Fuel Oil <sup>6</sup>	--	--	330	106	722	21	-73	--	84	1,168
15 ppm sulfur and under	--	--	280	72	663	21	-58	--	73	1,021
Greater than 15 ppm to 500 ppm sulfur	--	--	6	1	10	--	-6	--	11	12
Greater than 500 ppm sulfur	--	--	44	33	49	--	-9	--	0	134
Residual Fuel Oil <sup>7</sup>	--	--	46	75	1	--	-11	--	48	84
Less than 0.31 percent sulfur	--	--	12	4	0	--	3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	13	10	0	--	-4	--	NA	NA
Greater than 1.00 percent sulfur	--	--	21	60	2	--	-9	--	NA	NA
Petrochemical Feedstocks	--	--	4	0	-1	--	0	--	--	3
Naphtha for Petro. Feed. Use	--	--	4	0	--	--	0	--	--	4
Other Oils for Petro. Feed. Use	--	--	--	--	-1	--	--	--	--	-1
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	13	8	17	--	-1	--	7	32
Waxes	--	--	0	2	0	--	0	--	2	0
Petroleum Coke	--	--	34	1	16	--	--	--	20	31
Marketable	--	--	12	1	16	--	--	--	20	8
Catalyst	--	--	22	--	--	--	--	--	--	22
Asphalt and Road Oil	--	--	40	28	30	--	3	--	3	92
Still Gas	--	--	43	--	--	--	--	--	--	43
Miscellaneous Products	--	--	3	--	--	--	0	--	0	3
<b>Total</b>	<b>461</b>	<b>31</b>	<b>3,870</b>	<b>1,908</b>	<b>3,436</b>	<b>23</b>	<b>-102</b>	<b>3,822</b>	<b>361</b>	<b>5,648</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report" and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management.



**Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2017**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>52,762</b>	--	--	<b>75,165</b>	<b>-251</b>	<b>-2,042</b>	<b>9,386</b>	<b>110,971</b>	<b>5,277</b>	<b>0</b>	<b>149,353</b>
<b>Hydrocarbon Gas Liquids</b>	<b>25,192</b>	<b>-594</b>	<b>2,767</b>	<b>2,349</b>	<b>-8,773</b>	--	<b>2,445</b>	<b>3,634</b>	<b>7,317</b>	<b>7,545</b>	<b>64,331</b>
Natural Gas Liquids	25,192	-594	1,389	1,983	-8,077	--	1,812	3,634	7,317	7,130	62,933
Ethane	7,980	--	--	--	--	--	359	--	1,902	1,981	6,331
Propane	9,357	--	2,163	1,654	-6,319	--	2,179	--	140	4,536	25,628
Normal Butane	2,961	--	-645	133	-1,345	--	-1,204	954	453	901	19,099
Isobutane	1,781	--	-129	191	123	--	198	1,609	--	159	2,297
Natural Gasoline	3,113	-594	--	5	3,202	--	280	1,071	4,823	-448	9,578
Refinery Olefins	--	--	1,378	366	--	--	633	--	--	415	1,398
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,121	272	--	--	8	--	--	689	694
Butylene	--	--	257	94	--	--	625	--	--	-274	704
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
<b>Other Liquids</b>	--	<b>30,294</b>	--	<b>373</b>	<b>-12,871</b>	<b>-2,735</b>	<b>-2,074</b>	<b>17,293</b>	<b>2,794</b>	<b>-2,952</b>	<b>66,528</b>
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	30,295	--	56	-19,554	-1,341	-360	9,126	690	0	7,928
Hydrogen	--	--	--	--	--	1,178	--	1,178	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	1	--	--	--	0	1	--	0	0	7
Renewable Fuels (including Fuel Ethanol)	--	30,294	--	17	-19,554	-2,514	-355	7,909	689	0	7,904
Fuel Ethanol	--	27,930	--	--	-19,095	-1,104	-309	7,411	629	0	7,114
Renewable Fuels Except Fuel Ethanol	--	2,364	--	17	-459	-1,410	-46	498	60	0	790
Other Hydrocarbons	--	--	--	39	--	-6	-6	39	--	0	17
Unfinished Oils	--	--	--	--	-359	--	-1,084	1,754	1,923	-2,952	14,327
Motor Gasoline Blend.Comp. (MGBC)	--	-1	--	317	7,042	-1,394	-630	6,413	181	0	44,273
Reformulated	--	--	--	--	574	-83	20	471	--	0	6,006
Conventional	--	-1	--	317	6,468	-1,311	-650	5,942	181	0	38,267
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	<b>123</b>	<b>136,222</b>	<b>747</b>	<b>2,876</b>	<b>3,908</b>	<b>-2,565</b>	--	<b>1,589</b>	<b>144,851</b>	<b>58,367</b>
Finished Motor Gasoline	--	123	77,156	--	34	2,498	-522	--	349	79,984	6,079
Reformulated	--	--	10,563	--	--	119	--	--	--	10,682	--
Conventional	--	123	66,593	--	34	2,379	-522	--	349	69,302	6,079
Finished Aviation Gasoline	--	--	36	2	-49	--	-12	--	--	1	150
Kerosene-Type Jet Fuel	--	--	8,587	--	949	--	261	--	186	9,089	7,365
Kerosene	--	--	13	--	--	--	-18	--	3	28	106
Distillate Fuel Oil	--	--	32,052	42	3,855	1,410	-1,212	--	206	38,365	30,745
15 ppm sulfur and under	--	--	32,107	39	3,667	1,410	-1,356	--	1	38,578	29,802
Greater than 15 ppm to 500 ppm sulfur	--	--	-12	--	113	--	24	--	44	33	384
Greater than 500 ppm sulfur	--	--	-43	3	75	--	120	--	161	-246	559
Residual Fuel Oil <sup>6</sup>	--	--	1,601	28	-803	--	1	--	183	642	1,248
Less than 0.31 percent sulfur	--	--	80	--	-31	--	-14	--	NA	NA	70
0.31 to 1.00 percent sulfur	--	--	206	--	--	--	-51	--	NA	NA	194
Greater than 1.00 percent sulfur	--	--	1,315	28	-772	--	66	--	NA	NA	984
Petrochemical Feedstocks	--	--	895	167	-62	--	-29	--	--	1,029	619
Naphtha for Petro. Feed. Use	--	--	672	86	-81	--	-19	--	--	696	476
Other Oils for Petro. Feed. Use	--	--	223	81	19	--	-10	--	--	333	143
Special Naphthas	--	--	55	42	--	--	6	--	--	91	157
Lubricants	--	--	256	177	186	--	46	--	189	384	748
Waxes	--	--	26	12	--	--	-12	--	21	29	50
Petroleum Coke	--	--	5,681	25	-726	--	-131	--	216	4,895	1,397
Marketable	--	--	4,165	25	-726	--	-131	--	216	3,379	1,397
Catalyst	--	--	1,516	--	--	--	--	--	--	1,516	--
Asphalt and Road Oil	--	--	5,199	250	-527	--	-948	--	237	5,633	9,590
Still Gas	--	--	4,189	--	--	--	--	--	--	4,189	--
Miscellaneous Products	--	--	476	2	19	--	5	--	0	492	113
<b>Total</b>	<b>77,954</b>	<b>29,823</b>	<b>138,989</b>	<b>78,634</b>	<b>-19,019</b>	<b>-870</b>	<b>7,192</b>	<b>131,898</b>	<b>16,978</b>	<b>149,443</b>	<b>338,579</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

**Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2017**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>458,208</b>	--	--	<b>702,614</b>	<b>-32,857</b>	<b>-40,738</b>	<b>-1,926</b>	<b>1,035,328</b>	<b>53,824</b>	<b>0</b>	<b>149,353</b>
<b>Hydrocarbon Gas Liquids</b>	<b>223,043</b>	<b>-5,383</b>	<b>38,124</b>	<b>21,886</b>	<b>-85,007</b>	--	<b>16,404</b>	<b>26,122</b>	<b>60,828</b>	<b>89,309</b>	<b>64,331</b>
Natural Gas Liquids	223,043	-5,383	25,553	17,983	-78,251	--	15,696	26,122	60,828	80,299	--
Ethane	71,982	--	--	--	--	--	650	--	16,807	22,339	--
Propane	83,305	--	20,577	14,681	-74,268	--	4,127	--	2,159	38,009	--
Normal Butane	26,904	--	23	1,447	-12,423	--	10,238	5,906	3,069	2,972	--
Isobutane	14,694	--	-1,276	1,815	-463	--	395	13,433	2	940	--
Natural Gasoline	26,158	-5,383	--	40	41,089	--	286	6,783	38,796	16,039	--
Refinery Olefins	--	--	12,571	3,903	--	--	708	--	--	9,010	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	11,541	3,275	--	--	61	--	--	7,999	--
Butylene	--	--	1,030	628	--	--	647	--	--	1,011	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
<b>Other Liquids</b>	--	<b>274,851</b>	--	<b>2,872</b>	<b>-103,572</b>	<b>-14,601</b>	<b>-9</b>	<b>155,642</b>	<b>16,878</b>	<b>-12,960</b>	<b>66,528</b>
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	274,861	--	394	-181,158	-4,781	128	82,587	6,601	0	7,928
Hydrogen	--	--	--	--	--	10,404	--	10,404	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	10	--	--	--	2	7	--	5	0	7
Renewable Fuels (including Fuel Ethanol)	--	274,851	--	323	-181,158	-15,444	121	71,855	6,596	0	7,904
Fuel Ethanol	--	256,309	--	--	-175,943	-7,134	20	67,720	5,492	0	7,114
Renewable Fuels Except Fuel Ethanol	--	18,542	--	323	-5,215	-8,310	101	4,135	1,104	0	790
Other Hydrocarbons	--	--	--	71	--	257	0	328	--	0	17
Unfinished Oils	--	--	--	--	-1,587	--	1,190	484	9,699	-12,960	14,327
Motor Gasoline Blend.Comp. (MGBC)	--	-10	--	2,478	79,173	-9,820	-1,327	72,571	577	0	44,273
Reformulated	--	-1	--	258	17,126	-10,621	-541	7,303	0	0	6,006
Conventional	--	-9	--	2,220	62,047	801	-786	65,268	577	0	38,267
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	<b>901</b>	<b>1,242,889</b>	<b>6,704</b>	<b>19,845</b>	<b>25,305</b>	<b>-3,066</b>	--	<b>12,581</b>	<b>1,286,129</b>	<b>58,367</b>
Finished Motor Gasoline	--	901	707,254	--	4,395	16,954	-1,168	--	1,480	729,192	6,079
Reformulated	--	--	98,936	--	--	12,508	--	--	--	111,444	--
Conventional	--	901	608,318	--	4,395	4,446	-1,168	--	1,480	617,748	6,079
Finished Aviation Gasoline	--	--	444	21	335	--	-61	--	--	861	150
Kerosene-Type Jet Fuel	--	--	71,240	5	7,530	--	536	--	1,854	76,385	7,365
Kerosene	--	--	259	--	--	--	-90	--	16	333	106
Distillate Fuel Oil	--	--	299,061	254	25,902	8,351	-1,817	--	2,107	333,278	30,745
15 ppm sulfur and under	--	--	299,670	231	24,852	8,351	-1,486	--	10	334,580	29,802
Greater than 15 ppm to 500 ppm sulfur	--	--	241	--	782	--	-66	--	1,029	60	384
Greater than 500 ppm sulfur	--	--	-850	23	268	--	-265	--	1,068	-1,362	559
Residual Fuel Oil <sup>6</sup>	--	--	14,049	637	-7,372	--	-241	--	2,448	5,107	1,248
Less than 0.31 percent sulfur	--	--	889	--	-368	--	38	--	NA	NA	70
0.31 to 1.00 percent sulfur	--	--	2,007	294	-95	--	-93	--	NA	NA	194
Greater than 1.00 percent sulfur	--	--	11,153	343	-6,909	--	-186	--	NA	NA	984
Petrochemical Feedstocks	--	--	8,826	1,312	-952	--	86	--	--	9,100	619
Naphtha for Petro. Feed. Use	--	--	6,491	677	-845	--	85	--	--	6,238	476
Other Oils for Petro. Feed. Use	--	--	2,335	635	-107	--	1	--	--	2,862	143
Special Naphthas	--	--	480	393	180	--	-4	--	--	1,057	157
Lubricants	--	--	2,169	1,752	2,005	--	8	--	1,667	4,251	748
Waxes	--	--	308	52	--	--	6	--	220	134	50
Petroleum Coke	--	--	53,084	206	-7,048	--	319	--	1,705	44,218	1,397
Marketable	--	--	39,765	206	-7,048	--	319	--	1,705	30,899	1,397
Catalyst	--	--	13,319	--	--	--	--	--	--	13,319	--
Asphalt and Road Oil	--	--	42,475	2,069	-5,295	--	-630	--	1,079	38,800	9,590
Still Gas	--	--	38,803	--	--	--	--	--	--	38,803	--
Miscellaneous Products	--	--	4,437	3	164	--	-10	--	5	4,609	113
<b>Total</b>	<b>681,251</b>	<b>270,369</b>	<b>1,281,013</b>	<b>734,076</b>	<b>-201,592</b>	<b>-30,035</b>	<b>11,403</b>	<b>1,217,092</b>	<b>144,110</b>	<b>1,362,477</b>	<b>338,579</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

**Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2017**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	1,759	--	--	2,506	-8	-68	313	3,699	176	0
<b>Hydrocarbon Gas Liquids</b>	840	-20	92	78	-292	--	82	121	244	251
Natural Gas Liquids	840	-20	46	66	-269	--	60	121	244	238
Ethane	266	--	--	--	--	--	12	--	63	66
Propane	312	--	72	55	-211	--	73	--	5	151
Normal Butane	99	--	-63	4	-45	--	-40	32	15	30
Isobutane	59	--	-4	6	4	--	7	54	--	5
Natural Gasoline	104	-20	--	0	107	--	9	36	161	-15
Refinery Olefins	--	--	46	12	--	--	21	--	--	14
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	37	9	-23	--	0	--	--	23
Butylene	--	--	9	3	--	--	21	--	--	-9
Isobutylene	--	--	--	--	--	--	0	--	--	0
<b>Other Liquids</b>	--	1,010	--	12	-429	-91	-69	576	93	-98
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,010	--	2	-652	-45	-12	304	23	0
Hydrogen	--	--	--	--	--	39	--	39	--	0
Oxygenates (excluding Fuel Ethanol)	--	0	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,010	--	1	-652	-84	-12	264	23	0
Fuel Ethanol	--	931	--	--	-636	-37	-10	247	21	0
Renewable Fuels Except Fuel Ethanol	--	79	--	1	-15	-47	-2	17	2	0
Other Hydrocarbons	--	--	--	1	--	0	0	1	--	0
Unfinished Oils	--	--	--	--	-12	--	-36	58	64	-98
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	11	235	-46	-21	214	6	0
Reformulated	--	--	--	--	19	-3	1	16	--	0
Conventional	--	0	--	11	216	-44	-22	198	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	4	4,541	25	96	130	-86	--	53	4,828
Finished Motor Gasoline	--	4	2,572	--	1	83	-17	--	12	2,666
Reformulated	--	--	352	--	--	4	--	--	--	356
Conventional	--	4	2,220	--	1	79	-17	--	12	2,310
Finished Aviation Gasoline	--	--	1	0	-2	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	286	--	32	--	9	--	6	303
Kerosene	--	--	0	--	--	--	-1	--	0	1
Distillate Fuel Oil	--	--	1,068	1	129	47	-40	--	7	1,279
15 ppm sulfur and under	--	--	1,070	1	122	47	-45	--	0	1,286
Greater than 15 ppm to 500 ppm sulfur	--	--	0	--	4	--	1	--	1	1
Greater than 500 ppm sulfur	--	--	-1	0	3	--	4	--	5	-8
Residual Fuel Oil <sup>6</sup>	--	--	53	1	-27	--	0	--	6	21
Less than 0.31 percent sulfur	--	--	3	--	-1	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	--	--	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	44	1	-26	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	30	6	-2	--	-1	--	--	34
Naphtha for Petro. Feed. Use	--	--	22	3	-3	--	-1	--	--	23
Other Oils for Petro. Feed. Use	--	--	7	3	1	--	0	--	--	11
Special Naphthas	--	--	2	1	--	--	0	--	--	3
Lubricants	--	--	9	6	6	--	2	--	6	13
Waxes	--	--	1	0	--	--	0	--	1	1
Petroleum Coke	--	--	189	1	-24	--	-4	--	7	163
Marketable	--	--	139	1	-24	--	-4	--	7	113
Catalyst	--	--	51	--	--	--	--	--	--	51
Asphalt and Road Oil	--	--	173	8	-18	--	-32	--	8	188
Still Gas	--	--	140	--	--	--	--	--	--	140
Miscellaneous Products	--	--	16	0	1	--	0	--	0	16
<b>Total</b>	<b>2,598</b>	<b>994</b>	<b>4,633</b>	<b>2,621</b>	<b>-634</b>	<b>-29</b>	<b>240</b>	<b>4,397</b>	<b>566</b>	<b>4,981</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.



**Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2017**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>1,678</b>	--	--	<b>2,574</b>	<b>-120</b>	<b>-149</b>	<b>-7</b>	<b>3,792</b>	<b>197</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>817</b>	<b>-20</b>	<b>140</b>	<b>80</b>	<b>-311</b>	--	<b>60</b>	<b>96</b>	<b>223</b>	<b>327</b>
Natural Gas Liquids	817	-20	94	66	-287	--	57	96	223	294
Ethane	264	--	--	--	--	--	2	--	62	82
Propane	305	--	75	54	-272	--	15	--	8	139
Normal Butane	99	--	23	5	-46	--	38	22	11	11
Isobutane	54	--	-5	7	-2	--	1	49	0	3
Natural Gasoline	96	-20	--	0	151	--	1	25	142	59
Refinery Olefins	--	--	46	14	--	--	3	--	--	33
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	42	12	-25	--	0	--	--	29
Butylene	--	--	4	2	--	--	2	--	--	4
Isobutylene	--	--	--	--	--	--	0	--	--	0
<b>Other Liquids</b>	--	<b>1,007</b>	--	<b>11</b>	<b>-379</b>	<b>-53</b>	<b>0</b>	<b>570</b>	<b>62</b>	<b>-47</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,007	--	1	-664	-18	0	303	24	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	0	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,007	--	1	-664	-57	0	263	24	0
Fuel Ethanol	--	939	--	--	-644	-26	0	248	20	0
Renewable Fuels Except Fuel Ethanol	--	68	--	1	-19	-30	0	15	4	0
Other Hydrocarbons	--	--	--	0	--	1	0	1	--	0
Unfinished Oils	--	--	--	--	-6	--	4	2	36	-47
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	9	290	-36	-5	266	2	0
Reformulated	--	0	--	1	63	-39	-2	27	0	0
Conventional	--	0	--	8	227	3	-3	239	2	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	<b>3</b>	<b>4,553</b>	<b>25</b>	<b>73</b>	<b>93</b>	<b>-11</b>	--	<b>46</b>	<b>4,711</b>
Finished Motor Gasoline	--	3	2,591	--	16	62	-4	--	5	2,671
Reformulated	--	--	362	--	--	46	--	--	--	408
Conventional	--	3	2,228	--	16	16	-4	--	5	2,263
Finished Aviation Gasoline	--	--	2	0	1	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	261	0	28	--	2	--	7	280
Kerosene	--	--	1	--	--	--	0	--	0	1
Distillate Fuel Oil	--	--	1,095	1	95	31	-7	--	8	1,221
15 ppm sulfur and under	--	--	1,098	1	91	31	-5	--	0	1,226
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	3	--	0	--	4	0
Greater than 500 ppm sulfur	--	--	-3	0	1	--	-1	--	4	-5
Residual Fuel Oil <sup>6</sup>	--	--	51	2	-27	--	-1	--	9	19
Less than 0.31 percent sulfur	--	--	3	--	-1	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	1	0	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	41	1	-25	--	-1	--	NA	NA
Petrochemical Feedstocks	--	--	32	5	-3	--	0	--	--	33
Naphtha for Petro. Feed. Use	--	--	24	2	-3	--	0	--	--	23
Other Oils for Petro. Feed. Use	--	--	9	2	0	--	0	--	--	10
Special Naphthas	--	--	2	1	1	--	0	--	--	4
Lubricants	--	--	8	6	7	--	0	--	6	16
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	194	1	-26	--	1	--	6	162
Marketable	--	--	146	1	-26	--	1	--	6	113
Catalyst	--	--	49	--	--	--	--	--	--	49
Asphalt and Road Oil	--	--	156	8	-19	--	-2	--	4	142
Still Gas	--	--	142	--	--	--	--	--	--	142
Miscellaneous Products	--	--	16	0	1	--	0	--	0	17
<b>Total</b>	<b>2,495</b>	<b>990</b>	<b>4,692</b>	<b>2,689</b>	<b>-738</b>	<b>-110</b>	<b>42</b>	<b>4,458</b>	<b>528</b>	<b>4,991</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2017**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil<sup>6</sup></b>	<b>178,330</b>	--	--	<b>66,983</b>	<b>8,903</b>	<b>9,462</b>	<b>1,709</b>	<b>223,106</b>	<b>38,863</b>	<b>0</b>	<b>912,076</b>
<b>Hydrocarbon Gas Liquids</b>	<b>58,537</b>	<b>-19</b>	<b>8,777</b>	<b>220</b>	<b>19,772</b>	--	<b>-3,033</b>	<b>9,973</b>	<b>29,358</b>	<b>50,989</b>	<b>146,101</b>
Natural Gas Liquids	58,537	-19	3,940	60	19,469	--	-2,668	9,973	29,358	45,324	141,046
Ethane	22,433	--	90	--	--	--	1,231	--	3,225	29,228	46,240
Propane	18,627	--	4,152	--	7,134	--	-4,580	--	23,498	10,995	36,849
Normal Butane	3,396	--	-63	--	2,199	--	54	2,949	2,525	4	37,682
Isobutane	7,054	--	-239	--	501	--	1,015	3,242	96	2,963	7,031
Natural Gasoline	7,027	-19	--	60	-1,526	--	-388	3,782	13	2,135	13,244
Refinery Olefins	--	--	4,837	160	--	--	-365	--	--	5,665	5,055
Ethylene	--	--	3	--	--	--	0	--	--	3	0
Propylene	--	--	5,158	--	--	--	-447	--	--	5,908	4,371
Butylene	--	--	-311	160	--	--	83	--	--	-234	684
Isobutylene	--	--	-13	--	--	--	-1	--	--	-12	0
<b>Other Liquids</b>	--	<b>3,246</b>	--	<b>16,625</b>	<b>-47,259</b>	<b>1,306</b>	<b>232</b>	<b>-39,483</b>	<b>11,584</b>	<b>1,584</b>	<b>123,427</b>
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	3,246	--	309	4,530	3,200	-660	8,340	3,604	0	6,900
Hydrogen	--	--	--	--	--	3,471	--	3,471	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	1,727	--	308	--	-722	-928	--	2,241	0	1,405
Renewable Fuels (including Fuel Ethanol)	--	1,519	--	--	4,530	452	268	4,869	1,364	0	5,495
Fuel Ethanol	--	876	--	--	4,425	723	267	4,405	1,352	0	4,094
Renewable Fuels Except Fuel Ethanol	--	643	--	--	105	-271	1	464	11	0	1,401
Other Hydrocarbons	--	--	--	1	--	-1	--	--	--	0	--
Unfinished Oils	--	--	--	14,176	376	--	1,122	5,441	6,407	1,582	45,801
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2,140	-52,165	-1,894	-224	-53,268	1,573	0	70,715
Reformulated	--	--	--	--	-9,466	7,220	-376	-1,878	8	0	10,548
Conventional	--	--	--	2,140	-42,699	-9,114	152	-51,390	1,565	0	60,167
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	-6	4	--	2	11
<b>Finished Petroleum Products</b>	--	--	<b>199,437</b>	<b>6,567</b>	<b>-39,808</b>	<b>1,633</b>	<b>-7,047</b>	--	<b>67,543</b>	<b>107,333</b>	<b>107,586</b>
Finished Motor Gasoline	--	--	62,767	312	-4,461	1,171	-1,772	--	17,190	44,371	7,799
Reformulated	--	--	13,596	--	--	-7,400	--	--	--	6,196	--
Conventional	--	--	49,171	312	-4,461	8,571	-1,772	--	17,190	38,175	7,799
Finished Aviation Gasoline	--	--	269	--	-1,325	--	87	--	--	-1,143	386
Kerosene-Type Jet Fuel	--	--	22,459	--	-12,476	--	48	--	2,635	7,300	13,804
Kerosene	--	--	-41	--	--	--	-51	--	96	-86	125
Distillate Fuel Oil	--	--	71,929	200	-21,247	462	-4,653	--	29,895	26,102	43,807
15 ppm sulfur and under	--	--	64,320	--	-19,546	462	-4,206	--	25,387	24,055	36,975
Greater than 15 ppm to 500 ppm sulfur	--	--	3,001	--	-941	--	-283	--	3,293	-950	1,485
Greater than 500 ppm sulfur	--	--	4,608	200	-760	--	-164	--	1,215	2,997	5,347
Residual Fuel Oil <sup>7</sup>	--	--	6,958	2,615	463	--	298	--	5,948	3,790	21,101
Less than 0.31 percent sulfur	--	--	1,000	549	31	--	466	--	NA	NA	1,752
0.31 to 1.00 percent sulfur	--	--	319	--	--	--	937	--	NA	NA	4,717
Greater than 1.00 percent sulfur	--	--	5,639	2,066	432	--	-1,105	--	NA	NA	14,632
Petrochemical Feedstocks	--	--	6,066	1,987	81	--	-37	--	--	8,171	2,272
Naphtha for Petro. Feed. Use	--	--	3,072	1,314	81	--	-111	--	--	4,578	1,394
Other Oils for Petro. Feed. Use	--	--	2,994	673	--	--	74	--	--	3,593	878
Special Naphthas	--	--	744	431	--	--	-43	--	--	1,218	720
Lubricants	--	--	2,909	789	-554	--	-502	--	1,960	1,686	7,041
Waxes	--	--	87	25	--	--	-43	--	25	130	215
Petroleum Coke	--	--	12,015	208	338	--	-77	--	9,323	3,315	5,316
Marketable	--	--	9,090	208	338	--	-77	--	9,323	390	5,316
Catalyst	--	--	2,925	--	--	--	--	--	--	2,925	--
Asphalt and Road Oil	--	--	2,714	--	-608	--	-213	--	444	1,875	4,663
Still Gas	--	--	9,228	--	--	--	--	--	--	9,228	--
Miscellaneous Products	--	--	1,333	--	-19	--	-89	--	27	1,376	337
<b>Total</b>	<b>236,867</b>	<b>3,227</b>	<b>208,214</b>	<b>90,395</b>	<b>-58,392</b>	<b>12,400</b>	<b>-8,139</b>	<b>193,596</b>	<b>147,348</b>	<b>159,906</b>	<b>1,289,190</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy

**Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2017**  
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	Ending Stocks
<b>Crude Oil<sup>6</sup></b>	<b>1,568,137</b>	--	--	<b>804,881</b>	<b>82,090</b>	<b>75,424</b>	<b>-28,789</b>	<b>2,361,087</b>	<b>198,234</b>	<b>0</b>	<b>912,076</b>
<b>Hydrocarbon Gas Liquids</b>	<b>538,557</b>	<b>-163</b>	<b>121,118</b>	<b>3,811</b>	<b>178,601</b>	--	<b>9,390</b>	<b>81,655</b>	<b>263,551</b>	<b>487,328</b>	<b>146,101</b>
Natural Gas Liquids	538,557	-163	65,018	2,733	174,440	--	12,670	81,655	263,551	422,709	--
Ethane	220,970	--	1,381	--	--	--	2,110	--	19,817	297,188	--
Propane	166,092	--	43,250	14	80,424	--	-9,999	--	214,922	84,857	--
Normal Butane	26,365	--	20,965	--	20,722	--	20,837	19,319	27,241	655	--
Isobutane	64,794	--	-578	30	4,853	--	1,696	31,716	1,278	34,409	--
Natural Gasoline	60,336	-163	--	2,689	-28,323	--	-1,974	30,620	293	5,600	--
Refinery Olefins	--	--	56,100	1,078	--	--	-3,280	--	--	64,619	--
Ethylene	--	--	63	--	--	--	0	--	--	63	--
Propylene	--	--	58,642	--	--	--	-1,801	--	--	64,604	--
Butylene	--	--	-2,381	1,078	--	--	-1,479	--	--	176	--
Isobutylene	--	--	-224	--	--	--	0	--	--	-224	--
<b>Other Liquids</b>	--	<b>31,498</b>	--	<b>136,755</b>	<b>-493,827</b>	<b>1,533</b>	<b>3,575</b>	<b>-449,720</b>	<b>96,770</b>	<b>25,335</b>	<b>123,427</b>
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	31,498	--	4,798	49,743	29,416	-173	80,660	34,969	0	6,900
Hydrogen	--	--	--	--	--	36,181	--	36,181	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	18,986	--	2,992	--	-3,392	-72	318	18,340	0	1,405
Renewable Fuels (including Fuel Ethanol)	--	12,512	--	1,716	49,743	-3,284	-101	44,161	16,629	0	5,495
Fuel Ethanol	--	7,341	--	--	49,085	501	769	40,062	16,096	0	4,094
Renewable Fuels Except Fuel Ethanol	--	5,171	--	1,716	659	-3,785	-870	4,099	533	0	1,401
Other Hydrocarbons	--	--	--	90	--	-90	--	--	--	0	--
Unfinished Oils	--	--	--	118,696	1,909	--	4,229	44,996	45,973	25,407	45,801
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	13,261	-545,479	-27,883	-483	-575,446	15,828	0	70,715
Reformulated	--	--	--	--	-113,558	31,397	-1,107	-81,115	61	0	10,548
Conventional	--	--	--	13,261	-431,921	-59,280	624	-494,331	15,767	0	60,167
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	2	70	--	-72	11
<b>Finished Petroleum Products</b>	--	--	<b>2,034,842</b>	<b>45,337</b>	<b>-440,635</b>	<b>32,782</b>	<b>-16,206</b>	--	<b>735,044</b>	<b>953,488</b>	<b>107,586</b>
Finished Motor Gasoline	--	--	588,412	722	-65,665	27,381	-3,675	--	166,045	388,481	7,799
Reformulated	--	--	125,674	--	--	-33,446	--	--	--	92,228	--
Conventional	--	--	462,738	722	-65,665	60,827	-3,675	--	166,045	296,253	7,799
Finished Aviation Gasoline	--	--	2,228	--	-10,935	--	-31	--	--	-8,676	386
Kerosene-Type Jet Fuel	--	--	234,407	--	-136,507	--	-1,262	--	40,456	58,706	13,804
Kerosene	--	--	189	--	--	--	-121	--	605	-295	125
Distillate Fuel Oil	--	--	759,700	2,696	-231,161	5,401	-4,985	--	321,675	219,946	43,807
15 ppm sulfur and under	--	--	688,885	--	-214,326	5,401	-5,408	--	278,930	206,438	36,975
Greater than 15 ppm to 500 ppm sulfur	--	--	26,883	--	-3,491	--	-12	--	26,456	-3,052	1,485
Greater than 500 ppm sulfur	--	--	43,932	2,696	-13,344	--	435	--	16,288	16,561	5,347
Residual Fuel Oil <sup>7</sup>	--	--	58,162	18,739	7,023	--	-3,255	--	60,840	26,339	21,101
Less than 0.31 percent sulfur	--	--	9,158	2,334	471	--	-519	--	NA	NA	1,752
0.31 to 1.00 percent sulfur	--	--	3,033	1,423	112	--	-572	--	NA	NA	4,717
Greater than 1.00 percent sulfur	--	--	45,971	14,982	6,440	--	-2,164	--	NA	NA	14,632
Petrochemical Feedstocks	--	--	75,400	10,855	1,166	--	-275	--	--	87,696	2,272
Naphtha for Petro. Feed. Use	--	--	46,517	7,556	845	--	-66	--	--	54,984	1,394
Other Oils for Petro. Feed. Use	--	--	28,883	3,299	321	--	-209	--	--	32,712	878
Special Naphthas	--	--	8,885	3,382	-180	--	-286	--	--	12,373	720
Lubricants	--	--	36,057	6,965	-6,152	--	-2,788	--	25,458	14,200	7,041
Waxes	--	--	1,009	261	-9	--	-35	--	211	1,085	215
Petroleum Coke	--	--	135,179	1,697	4,941	--	768	--	117,052	23,997	5,316
Marketable	--	--	103,949	1,697	4,941	--	768	--	117,052	-7,233	5,316
Catalyst	--	--	31,230	--	--	--	--	--	--	31,230	--
Asphalt and Road Oil	--	--	21,953	--	-2,993	--	-174	--	2,490	16,644	4,663
Still Gas	--	--	97,670	--	--	--	--	--	--	97,670	--
Miscellaneous Products	--	--	15,591	20	-164	--	-87	--	212	15,322	337
<b>Total</b>	<b>2,106,694</b>	<b>31,335</b>	<b>2,155,960</b>	<b>990,784</b>	<b>-673,771</b>	<b>109,739</b>	<b>-32,030</b>	<b>1,993,022</b>	<b>1,293,598</b>	<b>1,466,152</b>	<b>1,289,190</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy

**Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2017**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil<sup>6</sup></b>	<b>5,944</b>	--	--	<b>2,233</b>	<b>297</b>	<b>315</b>	<b>57</b>	<b>7,437</b>	<b>1,295</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>1,951</b>	<b>-1</b>	<b>293</b>	<b>7</b>	<b>659</b>	--	<b>-101</b>	<b>332</b>	<b>979</b>	<b>1,700</b>
Natural Gas Liquids	1,951	-1	131	2	649	--	-89	332	979	1,511
Ethane	748	--	3	--	--	--	41	--	108	974
Propane	621	--	138	--	238	--	-153	--	783	367
Normal Butane	113	--	-2	--	73	--	2	98	84	0
Isobutane	235	--	-8	--	17	--	34	108	3	99
Natural Gasoline	234	-1	--	2	-51	--	-13	126	0	71
Refinery Olefins	--	--	161	5	--	--	-12	--	--	189
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	172	--	10	--	-15	--	--	197
Butylene	--	--	-10	5	--	--	3	--	--	-8
Isobutylene	--	--	0	--	--	--	0	--	--	0
<b>Other Liquids</b>	--	<b>108</b>	--	<b>554</b>	<b>-1,575</b>	<b>44</b>	<b>8</b>	<b>-1,316</b>	<b>386</b>	<b>53</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	108	--	10	151	107	-22	278	120	0
Hydrogen	--	--	--	--	--	116	--	116	--	0
Oxygenates (excluding Fuel Ethanol)	--	58	--	10	--	-24	-31	--	75	0
Renewable Fuels (including Fuel Ethanol)	--	51	--	--	151	15	9	162	45	0
Fuel Ethanol	--	29	--	--	148	24	9	147	45	0
Renewable Fuels Except Fuel Ethanol	--	21	--	--	3	-9	0	15	0	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	473	13	--	37	181	214	53
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	71	-1,739	-63	-7	-1,776	52	0
Reformulated	--	--	--	--	-316	241	-13	-63	0	0
Conventional	--	--	--	71	-1,423	-304	5	-1,713	52	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
<b>Finished Petroleum Products</b>	--	--	<b>6,648</b>	<b>219</b>	<b>-1,327</b>	<b>54</b>	<b>-235</b>	--	<b>2,251</b>	<b>3,578</b>
Finished Motor Gasoline	--	--	2,092	10	-149	39	-59	--	573	1,479
Reformulated	--	--	453	--	--	-247	--	--	--	207
Conventional	--	--	1,639	10	-149	286	-59	--	573	1,272
Finished Aviation Gasoline	--	--	9	--	-44	--	3	--	--	-38
Kerosene-Type Jet Fuel	--	--	749	--	-416	--	2	--	88	243
Kerosene	--	--	-1	--	--	--	-2	--	3	-3
Distillate Fuel Oil	--	--	2,398	7	-708	15	-155	--	996	870
15 ppm sulfur and under	--	--	2,144	--	-652	15	-140	--	846	802
Greater than 15 ppm to 500 ppm sulfur	--	--	100	--	-31	--	-9	--	110	-32
Greater than 500 ppm sulfur	--	--	154	7	-25	--	-5	--	40	100
Residual Fuel Oil <sup>7</sup>	--	--	232	87	15	--	10	--	198	126
Less than 0.31 percent sulfur	--	--	33	18	1	--	16	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	11	--	--	--	31	--	NA	NA
Greater than 1.00 percent sulfur	--	--	188	69	14	--	-37	--	NA	NA
Petrochemical Feedstocks	--	--	202	66	3	--	-1	--	--	272
Naphtha for Petro. Feed. Use	--	--	102	44	3	--	-4	--	--	153
Other Oils for Petro. Feed. Use	--	--	100	22	--	--	2	--	--	120
Special Naphthas	--	--	25	14	--	--	-1	--	--	41
Lubricants	--	--	97	26	-18	--	-17	--	65	56
Waxes	--	--	3	1	--	--	-1	--	1	4
Petroleum Coke	--	--	401	7	11	--	-3	--	311	110
Marketable	--	--	303	7	11	--	-3	--	311	13
Catalyst	--	--	98	--	--	--	--	--	--	98
Asphalt and Road Oil	--	--	90	--	-20	--	-7	--	15	63
Still Gas	--	--	308	--	--	--	--	--	--	308
Miscellaneous Products	--	--	44	--	-1	--	-3	--	1	46
<b>Total</b>	<b>7,896</b>	<b>108</b>	<b>6,940</b>	<b>3,013</b>	<b>-1,946</b>	<b>413</b>	<b>-271</b>	<b>6,453</b>	<b>4,912</b>	<b>5,330</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other sources.

**Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2017**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil<sup>6</sup></b>	<b>5,744</b>	--	--	<b>2,948</b>	<b>301</b>	<b>276</b>	<b>-105</b>	<b>8,649</b>	<b>726</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>1,973</b>	<b>-1</b>	<b>444</b>	<b>14</b>	<b>654</b>	--	<b>34</b>	<b>299</b>	<b>965</b>	<b>1,785</b>
Natural Gas Liquids	1,973	-1	238	10	639	--	46	299	965	1,548
Ethane	809	--	5	--	--	--	8	--	73	1,089
Propane	608	--	158	0	295	--	-37	--	787	311
Normal Butane	97	--	1,180	--	76	--	76	71	100	2
Isobutane	237	--	-2	0	18	--	6	116	5	126
Natural Gasoline	221	-1	--	10	-104	--	-7	112	1	21
Refinery Olefins	--	--	205	4	--	--	-12	--	--	237
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	215	--	15	--	-7	--	--	237
Butylene	--	--	-9	4	--	--	-5	--	--	1
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
<b>Other Liquids</b>	--	<b>115</b>	--	<b>501</b>	<b>-1,809</b>	<b>6</b>	<b>13</b>	<b>-1,647</b>	<b>354</b>	<b>93</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	115	--	18	182	108	-1	295	128	0
Hydrogen	--	--	--	--	--	133	--	133	--	0
Oxygenates (excluding Fuel Ethanol)	--	70	--	11	--	-12	0	1	67	0
Renewable Fuels (including Fuel Ethanol)	--	46	--	6	182	-12	0	162	61	0
Fuel Ethanol	--	27	--	--	180	2	3	147	59	0
Renewable Fuels Except Fuel Ethanol	--	19	--	6	2	-14	-3	15	2	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	435	7	--	15	165	168	93
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	49	-1,998	-102	-2	-2,108	58	0
Reformulated	--	--	--	--	-416	115	-4	-297	0	0
Conventional	--	--	--	49	-1,582	-217	2	-1,811	58	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
<b>Finished Petroleum Products</b>	--	--	<b>7,454</b>	<b>166</b>	<b>-1,614</b>	<b>120</b>	<b>-59</b>	--	<b>2,692</b>	<b>3,493</b>
Finished Motor Gasoline	--	--	2,155	3	-241	100	-13	--	608	1,423
Reformulated	--	--	460	--	--	-123	--	--	--	338
Conventional	--	--	1,695	3	-241	223	-13	--	608	1,085
Finished Aviation Gasoline	--	--	8	--	-40	--	0	--	--	-32
Kerosene-Type Jet Fuel	--	--	859	--	-500	--	-5	--	148	215
Kerosene	--	--	1	--	--	--	0	--	2	-1
Distillate Fuel Oil	--	--	2,783	10	-847	20	-18	--	1,178	806
15 ppm sulfur and under	--	--	2,523	--	-785	20	-20	--	1,022	756
Greater than 15 ppm to 500 ppm sulfur	--	--	98	--	-13	--	0	--	97	-11
Greater than 500 ppm sulfur	--	--	161	10	-49	--	2	--	60	61
Residual Fuel Oil <sup>7</sup>	--	--	213	69	26	--	-12	--	223	96
Less than 0.31 percent sulfur	--	--	34	9	2	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	11	5	0	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	168	55	24	--	-8	--	NA	NA
Petrochemical Feedstocks	--	--	276	40	4	--	-1	--	--	321
Naphtha for Petro. Feed. Use	--	--	170	28	3	--	0	--	--	201
Other Oils for Petro. Feed. Use	--	--	106	12	1	--	-1	--	--	120
Special Naphthas	--	--	33	12	-1	--	-1	--	--	45
Lubricants	--	--	132	26	-23	--	-10	--	93	52
Waxes	--	--	4	1	0	--	0	--	1	4
Petroleum Coke	--	--	495	6	18	--	3	--	429	88
Marketable	--	--	381	6	18	--	3	--	429	-26
Catalyst	--	--	114	--	--	--	--	--	--	114
Asphalt and Road Oil	--	--	80	--	-11	--	-1	--	9	61
Still Gas	--	--	358	--	--	--	--	--	--	358
Miscellaneous Products	--	--	57	0	-1	--	0	--	1	56
<b>Total</b>	<b>7,717</b>	<b>115</b>	<b>7,897</b>	<b>3,629</b>	<b>-2,468</b>	<b>402</b>	<b>-117</b>	<b>7,300</b>	<b>4,738</b>	<b>5,371</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

<sup>7</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other



**Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2017**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>22,742</b>	<b>--</b>	<b>--</b>	<b>10,531</b>	<b>-13,908</b>	<b>-239</b>	<b>-1,034</b>	<b>20,119</b>	<b>40</b>	<b>0</b>	<b>21,068</b>
<b>Hydrocarbon Gas Liquids</b>	<b>12,139</b>	<b>-9</b>	<b>507</b>	<b>302</b>	<b>-11,940</b>	<b>--</b>	<b>217</b>	<b>546</b>	<b>62</b>	<b>174</b>	<b>4,451</b>
Natural Gas Liquids	12,139	-9	449	302	-11,940	--	246	546	62	87	4,430
Ethane	3,511	--	--	--	--	--	-9	--	--	-128	410
Propane	4,287	--	302	280	-4,156	--	99	--	0	614	1,509
Normal Butane	1,687	--	134	17	-1,563	--	137	163	--	-25	1,920
Isobutane	767	--	13	5	-908	--	21	213	--	-357	261
Natural Gasoline	1,887	-9	--	--	-1,665	--	-2	170	62	-17	330
Refinery Olefins	--	--	58	--	--	--	-29	--	--	87	21
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	19	--	--	--	-2	--	--	21	7
Butylene	--	--	39	--	--	--	-27	--	--	66	14
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
<b>Other Liquids</b>	<b>--</b>	<b>409</b>	<b>--</b>	<b>42</b>	<b>-90</b>	<b>-425</b>	<b>561</b>	<b>-770</b>	<b>0</b>	<b>145</b>	<b>8,786</b>
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	409	--	6	220	580	38	1,177	--	0	400
Hydrogen	--	--	--	--	--	219	--	219	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	409	--	6	220	361	38	958	--	0	400
Fuel Ethanol	--	409	--	--	154	378	40	901	--	0	393
Renewable Fuels Except Fuel Ethanol	--	--	--	6	66	-17	-2	57	--	0	7
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	235	-380	0	145	2,989
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	36	-310	-1,005	288	-1,567	0	0	5,397
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-310	-1,005	288	-1,567	0	0	5,397
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	<b>--</b>	<b>--</b>	<b>20,443</b>	<b>135</b>	<b>-1,455</b>	<b>644</b>	<b>-41</b>	<b>--</b>	<b>34</b>	<b>19,774</b>	<b>7,164</b>
Finished Motor Gasoline	--	--	9,519	--	-561	627	99	--	--	9,486	1,497
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	9,519	--	-561	627	99	--	--	9,486	1,497
Finished Aviation Gasoline	--	--	4	1	--	--	2	--	--	3	9
Kerosene-Type Jet Fuel	--	--	1,154	77	776	--	120	--	--	1,887	781
Kerosene	--	--	--	--	--	--	0	--	--	0	1
Distillate Fuel Oil	--	--	6,467	20	-536	17	-182	--	--	6,150	3,426
15 ppm sulfur and under	--	--	6,495	20	-536	17	-140	--	--	6,136	3,212
Greater than 15 ppm to 500 ppm sulfur	--	--	32	--	--	--	12	--	--	20	180
Greater than 500 ppm sulfur	--	--	-60	--	--	--	-54	--	--	-6	34
Residual Fuel Oil <sup>6</sup>	--	--	347	--	--	--	9	--	18	320	241
Less than 0.31 percent sulfur	--	--	188	--	--	--	-3	--	NA	NA	32
0.31 to 1.00 percent sulfur	--	--	16	--	--	--	1	--	NA	NA	5
Greater than 1.00 percent sulfur	--	--	143	--	--	--	11	--	NA	NA	204
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	11	-11	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	821	--	-308	--	25	--	0	488	85
Marketable	--	--	572	--	-308	--	25	--	0	239	85
Catalyst	--	--	249	--	--	--	--	--	--	249	--
Asphalt and Road Oil	--	--	1,245	36	-826	--	-113	--	4	563	1,110
Still Gas	--	--	770	--	--	--	--	--	--	770	--
Miscellaneous Products	--	--	116	1	--	--	-1	--	0	118	14
<b>Total</b>	<b>34,881</b>	<b>400</b>	<b>20,950</b>	<b>11,010</b>	<b>-27,393</b>	<b>-20</b>	<b>-297</b>	<b>19,895</b>	<b>137</b>	<b>20,093</b>	<b>41,469</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

**Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2017**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>184,588</b>	--	--	<b>94,320</b>	<b>-113,996</b>	<b>5,378</b>	<b>-2,252</b>	<b>171,784</b>	<b>757</b>	<b>0</b>	<b>21,068</b>
<b>Hydrocarbon Gas Liquids</b>	<b>104,669</b>	<b>-84</b>	<b>4,483</b>	<b>2,824</b>	<b>-94,459</b>	--	<b>1,106</b>	<b>5,051</b>	<b>2,429</b>	<b>8,847</b>	<b>4,451</b>
Natural Gas Liquids	104,669	-84	3,987	2,824	-94,459	--	1,124	5,051	2,429	8,333	--
Ethane	29,573	--	--	--	--	--	-26	--	--	1,559	--
Propane	37,608	--	2,654	2,543	-33,697	--	156	--	1	8,951	--
Normal Butane	14,610	--	1,180	85	-12,817	--	965	1,584	196	313	--
Isobutane	6,796	--	153	196	-7,232	--	3	1,974	--	-2,064	--
Natural Gasoline	16,082	-84	--	--	-12,673	--	26	1,493	2,232	-426	--
Refinery Olefins	--	--	496	--	--	--	-18	--	--	514	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	148	--	--	--	7	--	--	141	--
Butylene	--	--	348	--	--	--	-25	--	--	373	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
<b>Other Liquids</b>	--	<b>3,818</b>	--	<b>370</b>	<b>912</b>	<b>-4,033</b>	<b>-82</b>	<b>323</b>	<b>98</b>	<b>729</b>	<b>8,786</b>
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	3,818	--	37	3,116	3,515	33	10,430	23	0	400
Hydrogen	--	--	--	--	--	1,860	--	1,860	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	3,818	--	37	3,116	1,655	33	8,570	23	0	400
Fuel Ethanol	--	3,818	--	--	2,731	1,588	40	8,097	0	0	393
Renewable Fuels Except Fuel Ethanol	--	--	--	37	385	67	-7	473	23	0	7
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	160	-963	74	729	2,989
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	333	-2,204	-7,548	-275	-9,144	0	0	5,397
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-2,204	-7,548	-275	-9,144	0	0	5,397
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>180,992</b>	<b>904</b>	<b>-6,047</b>	<b>5,893</b>	<b>-1,829</b>	--	<b>341</b>	<b>183,230</b>	<b>7,164</b>
Finished Motor Gasoline	--	--	86,242	--	-4,588	5,959	-741	--	7	88,347	1,497
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	86,242	--	-4,588	5,959	-741	--	7	88,347	1,497
Finished Aviation Gasoline	--	--	38	8	--	--	0	--	--	46	9
Kerosene-Type Jet Fuel	--	--	9,944	106	5,950	--	181	--	--	15,819	781
Kerosene	--	--	2	--	--	--	0	--	--	2	1
Distillate Fuel Oil	--	--	56,319	392	-1,218	-67	-890	--	--	56,316	3,426
15 ppm sulfur and under	--	--	55,956	392	-954	-67	-830	--	--	56,157	3,212
Greater than 15 ppm to 500 ppm sulfur	--	--	326	--	--	--	-40	--	--	366	180
Greater than 500 ppm sulfur	--	--	37	--	-264	--	-20	--	--	-207	34
Residual Fuel Oil <sup>6</sup>	--	--	3,284	--	--	--	17	--	172	3,095	241
Less than 0.31 percent sulfur	--	--	1,863	--	--	--	-2	--	NA	NA	32
0.31 to 1.00 percent sulfur	--	--	188	--	--	--	1	--	NA	NA	5
Greater than 1.00 percent sulfur	--	--	1,233	--	--	--	18	--	NA	NA	204
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	103	-103	--
Waxes	--	--	--	--	--	--	--	--	1	-1	--
Petroleum Coke	--	--	7,119	--	-2,745	--	-59	--	1	4,433	85
Marketable	--	--	4,859	--	-2,745	--	-59	--	1	2,173	85
Catalyst	--	--	2,260	--	--	--	--	--	--	2,260	--
Asphalt and Road Oil	--	--	10,399	388	-3,446	--	-334	--	56	7,618	1,110
Still Gas	--	--	6,620	--	--	--	--	--	--	6,620	--
Miscellaneous Products	--	--	1,025	10	--	--	-3	--	0	1,038	14
<b>Total</b>	<b>289,257</b>	<b>3,734</b>	<b>185,475</b>	<b>98,418</b>	<b>-213,590</b>	<b>7,238</b>	<b>-3,057</b>	<b>177,158</b>	<b>3,625</b>	<b>192,806</b>	<b>41,469</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

**Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2017**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>758</b>	--	--	<b>351</b>	<b>-464</b>	<b>-8</b>	<b>-34</b>	<b>671</b>	<b>1</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>405</b>	<b>0</b>	<b>17</b>	<b>10</b>	<b>-398</b>	--	<b>7</b>	<b>18</b>	<b>2</b>	<b>6</b>
Natural Gas Liquids	405	0	15	10	-398	--	8	18	2	3
Ethane	117	--	--	--	--	--	0	--	--	-4
Propane	143	--	10	9	-139	--	3	--	0	20
Normal Butane	56	--	4	1	-52	--	5	5	--	-1
Isobutane	26	--	0	0	-30	--	1	7	--	-12
Natural Gasoline	63	0	--	--	-56	--	0	6	2	-1
Refinery Olefins	--	--	2	--	--	--	-1	--	--	3
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1	--	--	--	0	--	--	1
Butylene	--	--	1	--	--	--	-1	--	--	2
Isobutylene	--	--	--	--	--	--	0	--	--	0
<b>Other Liquids</b>	--	<b>14</b>	--	<b>1</b>	<b>-3</b>	<b>-14</b>	<b>19</b>	<b>-26</b>	<b>0</b>	<b>5</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	7	19	1	39	--	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	7	12	1	32	--	0
Fuel Ethanol	--	14	--	--	5	13	1	30	--	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	2	-1	0	2	--	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	8	-13	0	5
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1	-10	-33	10	-52	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-10	-33	10	-52	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>681</b>	<b>5</b>	<b>-48</b>	<b>21</b>	<b>-1</b>	--	<b>1</b>	<b>659</b>
Finished Motor Gasoline	--	--	317	--	-19	21	3	--	--	316
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	317	--	-19	21	3	--	--	316
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	38	3	26	--	4	--	--	63
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	216	1	-18	1	-6	--	--	205
15 ppm sulfur and under	--	--	217	1	-18	1	-5	--	--	205
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	0	--	--	1
Greater than 500 ppm sulfur	--	--	-2	--	--	--	-2	--	--	0
Residual Fuel Oil <sup>6</sup>	--	--	12	--	--	--	0	--	1	11
Less than 0.31 percent sulfur	--	--	6	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	27	--	-10	--	1	--	0	16
Marketable	--	--	19	--	-10	--	1	--	0	8
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	42	1	-28	--	-4	--	0	19
Still Gas	--	--	26	--	--	--	--	--	--	26
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
<b>Total</b>	<b>1,163</b>	<b>13</b>	<b>698</b>	<b>367</b>	<b>-913</b>	<b>-1</b>	<b>-10</b>	<b>663</b>	<b>5</b>	<b>670</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.



**Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2017**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>676</b>	--	--	<b>345</b>	<b>-418</b>	<b>20</b>	<b>-8</b>	<b>629</b>	<b>3</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>383</b>	<b>0</b>	<b>16</b>	<b>10</b>	<b>-346</b>	--	<b>4</b>	<b>19</b>	<b>9</b>	<b>32</b>
Natural Gas Liquids	383	0	15	10	-346	--	4	19	9	31
Ethane	108	--	--	--	--	--	0	--	--	6
Propane	138	--	10	9	-123	--	1	--	0	33
Normal Butane	54	--	4	0	-47	--	4	6	1	1
Isobutane	25	--	1	1	-26	--	0	7	--	-8
Natural Gasoline	59	0	--	--	-46	--	0	5	8	-2
Refinery Olefins	--	--	2	--	--	--	0	--	--	2
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1	--	--	--	0	--	--	1
Butylene	--	--	1	--	--	--	0	--	--	1
Isobutylene	--	--	--	--	--	--	0	--	--	0
<b>Other Liquids</b>	--	<b>14</b>	--	<b>1</b>	<b>3</b>	<b>-15</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>3</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	11	13	0	38	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	11	6	0	31	0	0
Fuel Ethanol	--	14	--	--	10	6	0	30	0	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	1	0	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	1	-4	0	3
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1	-8	-28	-1	-33	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-8	-28	-1	-33	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>663</b>	<b>3</b>	<b>-22</b>	<b>22</b>	<b>-7</b>	--	<b>1</b>	<b>671</b>
Finished Motor Gasoline	--	--	316	--	-17	22	-3	--	0	324
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	316	--	-17	22	-3	--	0	324
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	36	0	22	--	1	--	--	58
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	206	1	-4	0	-3	--	--	206
15 ppm sulfur and under	--	--	205	1	-3	0	-3	--	--	206
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	0	--	--	1
Greater than 500 ppm sulfur	--	--	0	--	-1	--	0	--	--	-1
Residual Fuel Oil <sup>6</sup>	--	--	12	--	--	--	0	--	1	11
Less than 0.31 percent sulfur	--	--	7	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	26	--	-10	--	0	--	0	16
Marketable	--	--	18	--	-10	--	0	--	0	8
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	38	1	-13	--	-1	--	0	28
Still Gas	--	--	24	--	--	--	--	--	--	24
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
<b>Total</b>	<b>1,060</b>	<b>14</b>	<b>679</b>	<b>361</b>	<b>-782</b>	<b>27</b>	<b>-11</b>	<b>649</b>	<b>13</b>	<b>706</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2017**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>29,134</b>	--	--	<b>41,533</b>	<b>4,296</b>	<b>1,329</b>	<b>-147</b>	<b>76,439</b>	--	<b>0</b>	<b>48,224</b>
<b>Hydrocarbon Gas Liquids</b>	<b>1,960</b>	<b>-14</b>	<b>1,959</b>	<b>911</b>	<b>786</b>	--	<b>84</b>	<b>2,390</b>	<b>1,413</b>	<b>1,715</b>	<b>5,986</b>
Natural Gas Liquids	1,960	-14	1,648	911	786	--	110	2,390	1,413	1,378	5,911
Ethane	1	--	--	--	--	--	--	--	--	1	--
Propane	315	--	1,035	707	340	--	181	--	1,161	1,055	2,170
Normal Butane	328	--	445	202	289	--	-26	690	250	350	3,155
Isobutane	383	--	168	2	157	--	-27	880	--	-143	531
Natural Gasoline	933	-14	--	--	--	--	-18	820	1	116	55
Refinery Olefins	--	--	311	--	--	--	-26	--	--	337	75
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	359	--	--	--	-9	--	--	368	20
Butylene	--	--	-48	--	--	--	-17	--	--	-31	55
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
<b>Other Liquids</b>	--	<b>927</b>	--	<b>6,243</b>	<b>9,400</b>	<b>-1,709</b>	<b>2,048</b>	<b>11,314</b>	<b>411</b>	<b>1,089</b>	<b>52,179</b>
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	927	--	1,028	4,469	519	96	6,765	82	0	4,000
Hydrogen	--	--	--	--	--	1,311	--	1,311	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	2	--	--	2	0	--
Renewable Fuels (including Fuel Ethanol)	--	927	--	1,028	4,469	-794	96	5,454	81	0	4,000
Fuel Ethanol	--	617	--	254	4,294	-371	-108	4,844	57	0	2,811
Renewable Fuels Except Fuel Ethanol	--	310	--	774	175	-423	204	610	23	0	1,189
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	4,381	--	--	331	2,926	35	1,089	21,163
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	834	4,931	-2,228	1,621	1,623	293	0	27,016
Reformulated	--	--	--	--	2,626	-219	663	1,744	0	0	12,879
Conventional	--	--	--	834	2,305	-2,009	958	-121	293	0	14,137
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>94,357</b>	<b>4,945</b>	<b>2,392</b>	<b>2,742</b>	<b>3,237</b>	--	<b>9,515</b>	<b>91,683</b>	<b>34,560</b>
Finished Motor Gasoline	--	--	48,756	101	322	2,599	369	--	2,133	49,276	2,228
Reformulated	--	--	34,250	--	--	-60	4	--	--	34,186	19
Conventional	--	--	14,506	101	322	2,659	365	--	2,133	15,091	2,209
Finished Aviation Gasoline	--	--	43	4	--	--	31	--	--	16	240
Kerosene-Type Jet Fuel	--	--	14,573	2,609	134	--	822	--	880	15,614	10,355
Kerosene	--	--	10	--	--	--	-5	--	2	13	4
Distillate Fuel Oil	--	--	16,874	855	1,047	143	809	--	1,765	16,345	12,495
15 ppm sulfur and under	--	--	16,167	854	1,047	143	748	--	1,258	16,204	11,366
Greater than 15 ppm to 500 ppm sulfur	--	--	157	--	--	--	-38	--	406	-211	222
Greater than 500 ppm sulfur	--	--	550	1	--	--	99	--	101	351	907
Residual Fuel Oil <sup>6</sup>	--	--	3,354	1,197	--	--	1,072	--	473	3,006	5,225
Less than 0.31 percent sulfur	--	--	--	--	--	--	275	--	NA	NA	464
0.31 to 1.00 percent sulfur	--	--	665	161	--	--	105	--	NA	NA	748
Greater than 1.00 percent sulfur	--	--	2,689	1,036	--	--	692	--	NA	NA	4,007
Petrochemical Feedstocks	--	--	1	--	--	--	-2	--	--	3	3
Naphtha for Petro. Feed. Use	--	--	1	--	--	--	-2	--	--	3	3
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	12	--	--	--	-6	--	--	18	47
Lubricants	--	--	686	4	--	--	-11	--	415	286	892
Waxes	--	--	--	34	--	--	--	--	6	28	--
Petroleum Coke	--	--	4,814	15	147	--	161	--	3,818	997	1,503
Marketable	--	--	3,732	15	147	--	161	--	3,818	-85	1,503
Catalyst	--	--	1,082	--	--	--	--	--	--	1,082	--
Asphalt and Road Oil	--	--	919	126	742	--	2	--	23	1,762	1,465
Still Gas	--	--	3,884	--	--	--	--	--	--	3,884	--
Miscellaneous Products	--	--	431	--	--	--	-5	--	0	436	103
<b>Total</b>	<b>31,094</b>	<b>913</b>	<b>96,316</b>	<b>53,632</b>	<b>16,874</b>	<b>2,361</b>	<b>5,222</b>	<b>90,143</b>	<b>11,339</b>	<b>94,488</b>	<b>140,949</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

**Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2017**  
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>	
<b>Crude Oil</b>	<b>268,186</b>	--	--	<b>333,166</b>	<b>38,267</b>	<b>23,405</b>	<b>-3,481</b>	<b>661,973</b>	<b>4,533</b>	<b>0</b>	<b>48,224</b>
<b>Hydrocarbon Gas Liquids</b>	<b>17,745</b>	<b>-120</b>	<b>18,420</b>	<b>8,877</b>	<b>6,994</b>	--	<b>1,588</b>	<b>22,128</b>	<b>12,031</b>	<b>16,169</b>	<b>5,986</b>
Natural Gas Liquids	17,745	-120	15,862	8,877	6,994	--	1,535	22,128	12,031	13,664	--
Ethane	15	--	--	--	--	--	--	--	0	15	--
Propane	2,881	--	10,219	7,489	2,673	--	607	--	8,597	14,058	--
Normal Butane	2,636	--	4,563	1,296	2,956	--	849	7,597	3,329	-324	--
Isobutane	3,742	--	1,080	92	1,365	--	59	7,141	0	-921	--
Natural Gasoline	8,471	-120	--	--	--	--	20	7,390	104	837	--
Refinery Olefins	--	--	2,558	--	--	--	53	--	--	2,505	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	2,454	--	--	--	8	--	--	2,446	--
Butylene	--	--	104	--	--	--	45	--	--	59	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
<b>Other Liquids</b>	--	<b>7,609</b>	--	<b>45,376</b>	<b>87,307</b>	<b>-10,130</b>	<b>2,441</b>	<b>120,050</b>	<b>5,346</b>	<b>2,326</b>	<b>52,179</b>
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	7,609	--	5,548	42,994	5,854	-50	60,210	1,845	0	4,000
Hydrogen	--	--	--	--	--	10,516	--	10,516	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	16	--	--	16	0	--
Renewable Fuels (including Fuel Ethanol)	--	7,609	--	5,548	42,994	-4,678	-50	49,694	1,829	0	4,000
Fuel Ethanol	--	5,327	--	1,228	39,925	-861	338	43,646	1,635	0	2,811
Renewable Fuels Except Fuel Ethanol	--	2,282	--	4,320	3,069	-3,817	-388	6,048	194	0	1,189
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	30,500	--	--	2,591	24,348	1,235	2,326	21,163
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	9,328	44,313	-15,984	-100	35,492	2,265	0	27,016
Reformulated	--	--	--	268	22,019	-359	-1,445	23,366	7	0	12,879
Conventional	--	--	--	9,060	22,294	-15,625	1,345	12,126	2,258	0	14,137
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>837,864</b>	<b>44,712</b>	<b>18,341</b>	<b>19,789</b>	<b>1,866</b>	--	<b>90,466</b>	<b>828,374</b>	<b>34,560</b>
Finished Motor Gasoline	--	--	441,110	1,116	2,729	16,845	69	--	13,516	448,216	2,228
Reformulated	--	--	309,551	--	--	16	3	--	--	309,564	19
Conventional	--	--	131,559	1,116	2,729	16,829	66	--	13,516	138,651	2,209
Finished Aviation Gasoline	--	--	248	16	180	--	47	--	--	397	240
Kerosene-Type Jet Fuel	--	--	125,787	25,607	2,267	--	1,152	--	8,525	143,984	10,355
Kerosene	--	--	92	55	--	--	-43	--	28	162	4
Distillate Fuel Oil	--	--	148,504	3,534	9,404	2,944	-340	--	25,685	139,041	12,495
15 ppm sulfur and under	--	--	141,925	3,437	9,404	2,944	-484	--	16,086	142,108	11,366
Greater than 15 ppm to 500 ppm sulfur	--	--	2,702	--	--	--	-45	--	2,032	715	222
Greater than 500 ppm sulfur	--	--	3,877	97	--	--	189	--	7,567	-3,782	907
Residual Fuel Oil <sup>6</sup>	--	--	30,602	12,098	--	--	747	--	4,918	37,035	5,225
Less than 0.31 percent sulfur	--	--	44	--	--	--	330	--	NA	NA	464
0.31 to 1.00 percent sulfur	--	--	5,666	1,051	--	--	-101	--	NA	NA	748
Greater than 1.00 percent sulfur	--	--	24,892	11,047	--	--	518	--	NA	NA	4,007
Petrochemical Feedstocks	--	--	25	305	--	--	2	--	--	328	3
Naphtha for Petro. Feed. Use	--	--	25	273	--	--	2	--	--	296	3
Other Oils for Petro. Feed. Use	--	--	--	32	--	--	--	--	--	32	--
Special Naphthas	--	--	244	45	--	--	18	--	--	271	47
Lubricants	--	--	5,305	496	-363	--	294	--	2,433	2,711	892
Waxes	--	--	--	294	--	--	--	--	54	240	--
Petroleum Coke	--	--	41,740	254	459	--	290	--	35,031	7,132	1,503
Marketable	--	--	32,419	254	459	--	290	--	35,031	-2,189	1,503
Catalyst	--	--	9,321	--	--	--	--	--	--	9,321	--
Asphalt and Road Oil	--	--	6,999	891	3,664	--	-396	--	273	11,677	1,465
Still Gas	--	--	33,469	--	--	--	--	--	--	33,469	--
Miscellaneous Products	--	--	3,739	1	--	--	26	--	2	3,712	103
<b>Total</b>	<b>285,931</b>	<b>7,489</b>	<b>856,284</b>	<b>432,131</b>	<b>150,909</b>	<b>33,065</b>	<b>2,414</b>	<b>804,151</b>	<b>112,375</b>	<b>846,869</b>	<b>140,949</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

**Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2017**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>971</b>	--	--	<b>1,384</b>	<b>143</b>	<b>44</b>	<b>-5</b>	<b>2,548</b>	--	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>65</b>	<b>0</b>	<b>65</b>	<b>30</b>	<b>26</b>	--	<b>3</b>	<b>80</b>	<b>47</b>	<b>57</b>
Natural Gas Liquids	65	0	55	30	26	--	4	80	47	46
Ethane	0	--	--	--	--	--	--	--	--	0
Propane	11	--	35	24	11	--	6	--	39	35
Normal Butane	11	--	15	7	10	--	-1	23	8	12
Isobutane	13	--	6	0	5	--	-1	29	--	-5
Natural Gasoline	31	0	--	--	--	--	-1	27	0	4
Refinery Olefins	--	--	10	--	--	--	-1	--	--	11
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	12	--	--	--	0	--	--	12
Butylene	--	--	-2	--	--	--	-1	--	--	-1
Isobutylene	--	--	--	--	--	--	0	--	--	0
<b>Other Liquids</b>	--	<b>31</b>	--	<b>208</b>	<b>313</b>	<b>-57</b>	<b>68</b>	<b>377</b>	<b>14</b>	<b>36</b>
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	31	--	34	149	17	3	226	3	0
Hydrogen	--	--	--	--	--	44	--	44	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	31	--	34	149	-26	3	182	3	0
Fuel Ethanol	--	21	--	8	143	-12	-4	161	2	0
Renewable Fuels Except Fuel Ethanol	--	10	--	26	6	-14	7	20	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	146	--	--	11	98	1	36
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	28	164	-74	54	54	10	0
Reformulated	--	--	--	--	88	-7	22	58	0	0
Conventional	--	--	--	28	77	-67	32	-4	10	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>3,145</b>	<b>165</b>	<b>80</b>	<b>91</b>	<b>108</b>	--	<b>317</b>	<b>3,056</b>
Finished Motor Gasoline	--	--	1,625	3	11	87	12	--	71	1,643
Reformulated	--	--	1,142	--	--	-2	0	--	--	1,140
Conventional	--	--	484	3	11	89	12	--	71	503
Finished Aviation Gasoline	--	--	1	0	--	--	1	--	--	1
Kerosene-Type Jet Fuel	--	--	486	87	4	--	27	--	29	520
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	562	29	35	5	27	--	59	545
15 ppm sulfur and under	--	--	539	28	35	5	25	--	42	540
Greater than 15 ppm to 500 ppm sulfur	--	--	5	--	--	--	-1	--	14	-7
Greater than 500 ppm sulfur	--	--	18	0	--	--	3	--	3	12
Residual Fuel Oil <sup>6</sup>	--	--	112	40	--	--	36	--	16	100
Less than 0.31 percent sulfur	--	--	--	--	--	--	9	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	22	5	--	--	4	--	NA	NA
Greater than 1.00 percent sulfur	--	--	90	35	--	--	23	--	NA	NA
Petrochemical Feedstocks	--	--	0	--	--	--	0	--	--	0
Naphtha for Petro. Feed. Use	--	--	0	--	--	--	0	--	--	0
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	0	--	--	--	0	--	--	1
Lubricants	--	--	23	0	--	--	0	--	14	10
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	160	1	5	--	5	--	127	33
Marketable	--	--	124	1	5	--	5	--	127	-3
Catalyst	--	--	36	--	--	--	--	--	--	36
Asphalt and Road Oil	--	--	31	4	25	--	0	--	1	59
Still Gas	--	--	129	--	--	--	--	--	--	129
Miscellaneous Products	--	--	14	--	--	--	0	--	0	15
<b>Total</b>	<b>1,036</b>	<b>30</b>	<b>3,211</b>	<b>1,788</b>	<b>562</b>	<b>79</b>	<b>174</b>	<b>3,005</b>	<b>378</b>	<b>3,150</b>

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2017**  
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) <sup>1</sup>	Net Receipts <sup>2</sup>	Adjustments <sup>3</sup>	Stock Change <sup>4</sup>	Refinery and Blender Net Inputs	Exports	Products Supplied <sup>5</sup>
<b>Crude Oil</b>	<b>982</b>	--	--	<b>1,220</b>	<b>140</b>	<b>86</b>	<b>-13</b>	<b>2,425</b>	<b>17</b>	<b>0</b>
<b>Hydrocarbon Gas Liquids</b>	<b>65</b>	<b>0</b>	<b>67</b>	<b>33</b>	<b>26</b>	--	<b>6</b>	<b>81</b>	<b>44</b>	<b>59</b>
Natural Gas Liquids	65	0	58	33	26	--	6	81	44	50
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	11	--	37	27	10	--	2	--	31	51
Normal Butane	10	--	17	5	11	--	3	28	12	-1
Isobutane	14	--	4	0	5	--	0	26	0	-3
Natural Gasoline	31	0	--	--	--	--	0	27	0	3
Refinery Olefins	--	--	9	--	--	--	0	--	--	9
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	9	--	--	--	0	--	--	9
Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
<b>Other Liquids</b>	--	<b>28</b>	--	<b>166</b>	<b>320</b>	<b>-37</b>	<b>9</b>	<b>440</b>	<b>20</b>	<b>9</b>
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	28	--	20	157	21	0	221	7	0
Hydrogen	--	--	--	--	--	39	--	39	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	28	--	20	157	-17	0	182	7	0
Fuel Ethanol	--	20	--	4	146	-3	1	160	6	0
Renewable Fuels Except Fuel Ethanol	--	8	--	16	11	-14	-1	22	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	112	--	--	9	89	5	9
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	34	162	-59	0	130	8	0
Reformulated	--	--	--	1	81	-1	-5	86	0	0
Conventional	--	--	--	33	82	-57	5	44	8	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
<b>Finished Petroleum Products</b>	--	--	<b>3,069</b>	<b>164</b>	<b>67</b>	<b>72</b>	<b>7</b>	--	<b>331</b>	<b>3,034</b>
Finished Motor Gasoline	--	--	1,616	4	10	62	0	--	50	1,642
Reformulated	--	--	1,134	--	--	0	0	--	--	1,134
Conventional	--	--	482	4	10	62	0	--	50	508
Finished Aviation Gasoline	--	--	1	0	1	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	461	94	8	--	4	--	31	527
Kerosene	--	--	0	0	--	--	0	--	0	1
Distillate Fuel Oil	--	--	544	13	34	11	-1	--	94	509
15 ppm sulfur and under	--	--	520	13	34	11	-2	--	59	521
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	--	--	0	--	7	3
Greater than 500 ppm sulfur	--	--	14	0	--	--	1	--	28	-14
Residual Fuel Oil <sup>6</sup>	--	--	112	44	--	--	3	--	18	136
Less than 0.31 percent sulfur	--	--	0	--	--	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	4	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	91	40	--	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	0	--	--	--	--	--	0
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	19	2	-1	--	1	--	9	10
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	153	1	2	--	1	--	128	26
Marketable	--	--	119	1	2	--	1	--	128	-8
Catalyst	--	--	34	--	--	--	--	--	--	34
Asphalt and Road Oil	--	--	26	3	13	--	-1	--	1	43
Still Gas	--	--	123	--	--	--	--	--	--	123
Miscellaneous Products	--	--	14	0	--	--	0	--	0	14
<b>Total</b>	<b>1,047</b>	<b>27</b>	<b>3,137</b>	<b>1,583</b>	<b>553</b>	<b>121</b>	<b>9</b>	<b>2,946</b>	<b>412</b>	<b>3,102</b>

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

<sup>1</sup> Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>3</sup> Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

<sup>4</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

<sup>5</sup> Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

<sup>6</sup> Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, September 2017**  
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Supply</b>							
Field Production .....	1,472	52,762	178,330	22,742	29,134	284,441	9,481
Alaskan .....	--	--	--	--	--	14,465	482
Lower 48 States .....	--	--	--	--	--	269,977	8,999
Imports (PAD District of Entry) .....	24,050	75,165	66,983	10,531	41,533	218,262	7,275
Commercial .....	24,050	75,165	66,983	10,531	41,533	218,262	7,275
Strategic Petroleum Reserve (SPR) .....	--	--	--	--	--	--	--
Net Receipts .....	960	-251	8,903	-13,908	4,296	--	--
Adjustments <sup>1</sup> .....	1,322	-2,042	9,462	-239	1,329	9,830	328
<b>Disposition</b>							
Stock Change <sup>2</sup> .....	-5,365	9,386	1,709	-1,034	-147	4,549	152
Commercial .....	--	--	6,868	--	--	9,708	324
SPR .....	--	--	-5,159	--	--	-5,159	-172
Refinery Inputs .....	33,169	110,971	223,106	20,119	76,439	463,804	15,460
Exports .....	--	5,277	38,863	40	--	44,181	1,473
<b>Ending Stocks</b>							
Total .....	11,969	149,353	912,076	21,068	48,224	1,142,690	--
Commercial .....	11,969	149,353	238,436	21,068	48,224	469,050	--
Refinery .....	10,062	13,457	48,688	2,357	22,247	96,811	--
Tank Farms and Pipelines .....	1,907	135,896	189,748	18,711	22,389	368,651	--
Cushing, Oklahoma .....	--	62,801	--	--	--	62,801	--
Lease .....	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water .....	--	--	--	--	3,588	3,588	--
SPR .....	--	--	673,640	--	--	673,640	--
<b>SPR Stocks</b>							
Percent of Total Crude Oil Stocks (Percent) .....	--	--	--	--	--	59.0	--
Percent of Total Petroleum Stocks (Percent) .....	--	--	--	--	--	34.1	--
Days of Total Petroleum Net Imports (Days) .....	--	--	--	--	--	196	--
<b>SPR Receipts Detail</b>							
Receipts .....	--	--	--	--	--	--	--
Domestic .....	--	--	--	--	--	--	--
Imports .....	--	--	--	--	--	--	--
Imported by SPR .....	--	--	--	--	--	--	--
Imported for SPR by Others .....	--	--	--	--	--	--	--
<b>Imports</b>							
PAD District of Entry .....	24,050	75,165	66,983	10,531	41,533	218,262	7,275
PAD District of Processing .....	24,851	67,769	74,939	9,054	41,649	218,262	7,275

-- = Not Applicable.

-- = No Data Reported.

<sup>1</sup> Crude oil adjustment was previously referred to as Unaccounted-for Crude Oil.

<sup>2</sup> A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

Notes: Totals may not equal the sum of components due to independent rounding. Values of Domestic Crude Oil Field Production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," and EIA-817, "Monthly Tanker and Barge Movements Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.



**Table 26. Production of Crude Oil by PAD District and State, September 2017**  
(Thousand Barrels)

PAD District and State	September 2017		January-September 2017	
	Total	Daily Average	Total	Daily Average
<b>PAD District 1</b> .....	<b>1,472</b>	<b>49</b>	<b>12,835</b>	<b>47</b>
Florida .....	135	4	1,459	5
New York .....	18	1	165	1
Pennsylvania .....	547	18	4,622	17
Virginia .....	0	0	3	0
West Virginia .....	772	26	6,586	24
<b>PAD District 2</b> .....	<b>52,762</b>	<b>1,759</b>	<b>458,208</b>	<b>1,678</b>
Illinois .....	691	23	6,215	23
Indiana .....	141	5	1,339	5
Kansas .....	2,872	96	26,887	98
Kentucky .....	212	7	1,903	7
Michigan .....	446	15	4,049	15
Missouri .....	9	0	84	0
Nebraska .....	184	6	1,752	6
North Dakota .....	32,426	1,081	281,069	1,030
Ohio .....	1,599	53	13,822	51
Oklahoma .....	14,058	469	119,912	439
South Dakota .....	105	4	981	4
Tennessee .....	21	1	196	1
<b>PAD District 3</b> .....	<b>178,330</b>	<b>5,944</b>	<b>1,568,137</b>	<b>5,744</b>
Alabama .....	527	18	5,148	19
Arkansas .....	427	14	3,857	14
Louisiana .....	4,001	133	38,053	139
Mississippi .....	1,513	50	13,735	50
New Mexico .....	15,139	505	123,250	451
Texas .....	107,230	3,574	925,798	3,391
Federal Offshore PAD District 3 .....	49,493	1,650	458,296	1,679
<b>PAD District 4</b> .....	<b>22,742</b>	<b>758</b>	<b>184,588</b>	<b>676</b>
Colorado .....	11,909	397	89,839	329
Idaho .....	6	0	80	0
Montana .....	1,624	54	15,341	56
Utah .....	2,766	92	24,412	89
Wyoming .....	6,438	215	54,915	201
<b>PAD District 5</b> .....	<b>29,134</b>	<b>971</b>	<b>268,186</b>	<b>982</b>
Alaska .....	14,465	482	133,582	489
South Alaska .....	480	16	3,798	14
North Slope .....	13,984	466	129,784	475
Arizona .....	2	0	10	0
California .....	14,183	473	130,047	476
Nevada .....	25	1	217	1
Federal Offshore PAD District 5 .....	459	15	4,330	16
<b>U.S. Total</b> .....	<b>284,441</b>	<b>9,481</b>	<b>2,491,953</b>	<b>9,128</b>

– = No Data Reported.

Note: Year-to-date totals include revised monthly production estimates by state published in Petroleum Navigator. Crude oil production quantities are estimated by state and summed to the PADD and the U.S. level. State production estimates reported by EIA are normally different from data reported by state agencies. For example, production estimates for Texas reported on table 26 are different from production reported by the Railroad Commission of Texas. See EIA "Today In Energy" article released on July 10, 2015 (<http://www.eia.gov/todayinenergy/detail.cfm?id=22012>) for an explanation of differences in production data for Texas. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

**Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, September 2017**  
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids .....	13	12,938	12,951	5,901	6,901	12,390	25,192
Natural Gas Liquids .....	13	12,938	12,951	5,901	6,901	12,390	25,192
Ethane .....	—	5,140	5,140	2,061	1,902	4,017	7,980
Propane .....	4	4,482	4,486	2,380	2,589	4,388	9,357
Normal Butane .....	9	1,347	1,356	453	1,153	1,355	2,961
Isobutane .....	—	680	680	557	277	947	1,781
Natural Gasoline .....	—	1,289	1,289	450	980	1,683	3,113

Commodity	Production								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids .....	41,824	4,577	5,876	789	5,471	58,537	12,139	1,960	110,779
Natural Gas Liquids .....	41,824	4,577	5,876	789	5,471	58,537	12,139	1,960	110,779
Ethane .....	15,976	1,994	2,273	242	1,948	22,433	3,511	1	39,065
Propane .....	13,396	1,319	1,874	189	1,849	18,627	4,287	315	37,072
Normal Butane .....	4,727	2,611	647	86	547	3,396	1,687	328	9,728
Isobutane .....	2,747	3,393	391	67	456	7,054	767	383	10,665
Natural Gasoline .....	4,978	482	691	205	671	7,027	1,887	933	14,249

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids .....	5	257	262	952	115	625	1,692
Natural Gas Liquids .....	5	257	262	952	115	625	1,692
Ethane .....	—	—	—	85	3	186	274
Propane .....	2	135	137	540	49	215	804
Normal Butane .....	3	48	51	125	24	107	256
Isobutane .....	—	13	13	125	3	44	172
Natural Gasoline .....	—	61	61	77	36	73	186

Commodity	Stocks								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids .....	261	3,284	1,217	27	—	4,789	142	582	7,467
Natural Gas Liquids .....	261	3,284	1,217	27	—	4,789	142	582	7,467
Ethane .....	25	1,017	—	—	—	1,042	2	—	1,318
Propane .....	98	1,552	17	19	—	1,686	51	44	2,722
Normal Butane .....	70	261	1,056	5	—	1,392	37	449	2,185
Isobutane .....	33	369	59	—	—	461	11	42	699
Natural Gasoline .....	35	85	85	3	—	208	41	47	543

— = No Data Reported.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-816, "Monthly Natural Gas Liquids Report."



**Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2017**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
<b>Crude Oil</b> .....	<b>30,229</b>	<b>2,940</b>	<b>33,169</b>	<b>72,232</b>	<b>14,790</b>	<b>23,949</b>	<b>110,971</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>1,607</b>	<b>—</b>	<b>1,607</b>	<b>1,970</b>	<b>124</b>	<b>1,540</b>	<b>3,634</b>
Natural Gas Liquids .....	1,607	—	1,607	1,970	124	1,540	3,634
Normal Butane .....	981	—	981	488	59	407	954
Isobutane .....	457	—	457	1,083	53	473	1,609
Natural Gasoline .....	169	—	169	399	12	660	1,071
<b>Other Liquids</b> .....	<b>72,002</b>	<b>6,123</b>	<b>78,125</b>	<b>11,452</b>	<b>3,349</b>	<b>2,492</b>	<b>17,293</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	9,518	770	10,288	5,819	1,508	1,799	9,126
Hydrogen .....	83	2	85	705	272	201	1,178
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	9,435	768	10,203	5,075	1,236	1,598	7,909
Fuel Ethanol .....	9,192	706	9,898	4,783	1,100	1,528	7,411
Renewable Diesel Fuel .....	243	62	305	292	136	70	498
Other Renewable Fuels .....	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	39	—	—	39
Unfinished Oils (net) .....	2,249	-68	2,181	1,962	272	-480	1,754
Naphthas and Lighter .....	1,195	-5	1,190	969	-118	-309	542
Kerosene and Light Gas Oils .....	-789	—	-789	-134	-128	22	-240
Heavy Gas Oils .....	1,657	-62	1,595	885	523	83	1,491
Residuum .....	186	-1	185	242	-5	-276	-39
Motor Gasoline Blend.Comp. (MGBC)(net) .....	60,235	5,421	65,656	3,671	1,569	1,173	6,413
Reformulated - RBOB .....	15,388	175	15,563	-1,327	1,023	775	471
Conventional .....	44,847	5,246	50,093	4,998	546	398	5,942
CBOB .....	35,179	5,215	40,394	5,117	562	491	6,170
GTAB .....	3,262	—	3,262	—	—	—	—
Other .....	6,406	31	6,437	-119	-16	-93	-228
Aviation Gasoline Blend. Comp. (net) .....	—	—	—	—	—	—	—
<b>Total Input</b> .....	<b>103,838</b>	<b>9,063</b>	<b>112,901</b>	<b>85,654</b>	<b>18,263</b>	<b>27,981</b>	<b>131,898</b>

See footnotes at end of table.

**Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2017**  
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
<b>Crude Oil</b> .....	<b>20,396</b>	<b>84,738</b>	<b>106,494</b>	<b>7,323</b>	<b>4,155</b>	<b>223,106</b>	<b>20,119</b>	<b>76,439</b>	<b>463,804</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>625</b>	<b>4,101</b>	<b>4,975</b>	<b>91</b>	<b>181</b>	<b>9,973</b>	<b>546</b>	<b>2,390</b>	<b>18,150</b>
Natural Gas Liquids .....	625	4,101	4,975	91	181	9,973	546	2,390	18,150
Normal Butane .....	312	1,293	1,298	46	—	2,949	163	690	5,737
Isobutane .....	88	1,284	1,647	42	181	3,242	213	880	6,401
Natural Gasoline .....	225	1,524	2,030	3	—	3,782	170	820	6,012
<b>Other Liquids</b> .....	<b>9,184</b>	<b>-26,039</b>	<b>-29,254</b>	<b>7,030</b>	<b>-404</b>	<b>-39,483</b>	<b>-770</b>	<b>11,314</b>	<b>66,479</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	2,055	2,503	2,375	1,178	229	8,340	1,177	6,765	35,696
Hydrogen .....	15	1,554	1,765	91	46	3,471	219	1,311	6,264
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	2,040	949	610	1,087	183	4,869	958	5,454	29,393
Fuel Ethanol .....	1,948	853	453	984	167	4,405	901	4,844	27,459
Renewable Diesel Fuel .....	92	96	157	103	16	464	57	610	1,934
Other Renewable Fuels .....	—	—	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	—	—	—	—	—	39
Unfinished Oils (net) .....	116	-5,021	10,347	-30	29	5,441	-380	2,926	11,922
Naphthas and Lighter .....	-87	-5,031	-227	5	-1	-5,341	-10	-125	-3,744
Kerosene and Light Gas Oils .....	107	-742	1,833	-42	-34	1,122	-320	-205	-432
Heavy Gas Oils .....	89	247	6,777	62	64	7,239	69	2,862	13,256
Residuum .....	7	505	1,964	-55	—	2,421	-119	394	2,842
Motor Gasoline Blend.Comp. (MGBC)(net) .....	7,011	-23,521	-41,978	5,882	-662	-53,268	-1,567	1,623	18,857
Reformulated - RBOB .....	5,012	-2,985	-3,083	—	-822	-1,878	—	1,744	15,900
Conventional .....	1,999	-20,536	-38,895	5,882	160	-51,390	-1,567	-121	2,957
CBOB .....	2,065	-22,768	-38,155	5,869	227	-52,762	-1,459	-126	-7,783
GTAB .....	—	—	—	—	—	—	—	—	3,262
Other .....	-66	2,232	-740	13	-67	1,372	-108	5	7,478
Aviation Gasoline Blend. Comp. (net) .....	2	—	2	—	—	4	—	—	4
<b>Total Input</b> .....	<b>30,205</b>	<b>62,800</b>	<b>82,215</b>	<b>14,444</b>	<b>3,932</b>	<b>193,596</b>	<b>19,895</b>	<b>90,143</b>	<b>548,433</b>

— = No Data Reported.

<sup>1</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, September 2017**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids .....	376	-22	354	2,326	72	369	2,767
Natural Gas Liquids .....	10	-22	-12	1,216	-79	252	1,389
Ethane .....	-	-	-	-	-	-	-
Propane .....	676	21	697	1,585	218	360	2,163
Normal Butane .....	-647	-23	-670	-380	-218	-47	-645
Isobutane .....	-19	-20	-39	11	-79	-61	-129
Natural Gasoline .....	-	-	-	-	-	-	-
Refinery Olefins .....	366	-	366	1,110	151	117	1,378
Ethylene .....	17	-	17	-	-	-	-
Propylene .....	394	-	394	853	151	117	1,121
Butylene .....	-78	-	-78	257	-	-	257
Isobutylene .....	33	-	33	-	-	-	-
Finished Motor Gasoline .....	88,119	7,230	95,349	50,737	10,550	15,869	77,156
Reformulated .....	38,335	153	38,488	8,171	1,389	1,003	10,563
Reformulated Blended with Fuel Ethanol .....	38,335	153	38,488	8,171	1,389	1,003	10,563
Reformulated Other .....	-	-	-	-	-	-	-
Conventional .....	49,784	7,077	56,861	42,566	9,161	14,866	66,593
Conventional Blended with Fuel Ethanol .....	52,703	6,843	59,546	39,329	9,500	13,874	62,703
Ed55 and Lower .....	52,663	6,843	59,506	39,321	9,472	13,812	62,605
Greater than Ed55 .....	40	-	40	8	28	62	98
Conventional Other .....	-2,919	234	-2,685	3,237	-339	992	3,890
Finished Aviation Gasoline .....	-	-	-	-	36	-	36
Kerosene-Type Jet Fuel .....	3,150	-	3,150	6,758	875	954	8,587
Kerosene .....	182	-	182	-	-	13	13
Distillate Fuel Oil .....	8,951	835	9,786	18,037	4,799	9,216	32,052
15 ppm sulfur and under .....	8,156	743	8,899	18,210	4,613	9,284	32,107
Greater than 15 ppm to 500 ppm sulfur .....	42	72	114	-60	25	23	-12
Greater than 500 ppm sulfur .....	753	20	773	-113	161	-91	-43
Residual Fuel Oil .....	1,532	1	1,533	1,330	216	55	1,601
Less than 0.31 percent sulfur .....	211	1	212	80	-	-	80
0.31 to 1.00 percent sulfur .....	514	-	514	145	61	-	206
Greater than 1.00 percent sulfur .....	807	-	807	1,105	155	55	1,315
Petrochemical Feedstocks .....	117	-	117	895	-	-	895
Naphtha for Petro. Feed. Use .....	117	-	117	672	-	-	672
Other Oils for Petro. Feed. Use .....	-	-	-	223	-	-	223
Special Naphthas .....	-	23	23	41	-	14	55
Lubricants .....	240	196	436	-	-	256	256
Waxes .....	-	-5	-5	-	-	26	26
Petroleum Coke .....	837	19	856	4,159	635	887	5,681
Marketable .....	184	-	184	3,013	465	687	4,165
Catalyst .....	653	19	672	1,146	170	200	1,516
Asphalt and Road Oil .....	570	683	1,253	3,139	1,549	511	5,199
Still Gas .....	1,287	57	1,344	2,742	596	851	4,189
Miscellaneous Products .....	53	23	76	317	100	59	476
<b>Total .....</b>	<b>105,414</b>	<b>9,040</b>	<b>114,454</b>	<b>90,481</b>	<b>19,428</b>	<b>29,080</b>	<b>138,989</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	<b>-1,576</b>	<b>23</b>	<b>-1,553</b>	<b>-4,827</b>	<b>-1,165</b>	<b>-1,099</b>	<b>-7,091</b>

See footnotes at end of table.

**Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, September 2017**  
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids .....	450	2,894	5,339	26	68	8,777	507	1,959	14,364
Natural Gas Liquids .....	57	1,415	2,387	13	68	3,940	449	1,648	7,414
Ethane .....	1	72	17	—	—	90	—	—	90
Propane .....	292	1,493	2,270	47	50	4,152	302	1,035	8,349
Normal Butane .....	-180	185	-53	-34	19	-63	134	445	-799
Isobutane .....	-56	-335	153	—	-1	-239	13	168	-226
Natural Gasoline .....	—	—	—	—	—	—	—	—	—
Refinery Olefins .....	393	1,479	2,952	13	—	4,837	58	311	6,950
Ethylene .....	—	3	—	—	—	3	—	—	20
Propylene .....	394	1,708	3,043	13	—	5,158	19	359	7,051
Butylene .....	-1	-219	-91	—	—	-311	39	-48	-141
Isobutylene .....	—	-13	—	—	—	-13	—	—	20
Finished Motor Gasoline .....	20,339	17,115	14,306	9,172	1,835	62,767	9,519	48,756	293,547
Reformulated .....	6,988	6,608	—	—	—	13,596	—	34,250	96,897
Reformulated Blended with Fuel Ethanol .....	6,988	6,608	—	—	—	13,596	—	34,250	96,897
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	13,351	10,507	14,306	9,172	1,835	49,171	9,519	14,506	196,650
Conventional Blended with Fuel Ethanol .....	12,221	1,830	4,483	9,757	1,657	29,948	8,925	13,974	175,096
Ed55 and Lower .....	12,210	1,830	4,483	9,743	1,657	29,923	8,911	13,971	174,916
Greater than Ed55 .....	11	—	—	14	—	25	14	3	180
Conventional Other .....	1,130	8,677	9,823	-585	178	19,223	594	532	21,554
Finished Aviation Gasoline .....	109	61	99	—	—	269	4	43	352
Kerosene-Type Jet Fuel .....	1,452	7,664	13,116	227	—	22,459	1,154	14,573	49,923
Kerosene .....	2	2	-51	6	—	-41	—	10	164
Distillate Fuel Oil .....	6,428	24,173	36,836	2,684	1,808	71,929	6,467	16,874	137,108
15 ppm sulfur and under .....	6,427	23,165	30,305	2,615	1,808	64,320	6,495	16,167	127,988
Greater than 15 ppm to 500 ppm sulfur .....	1	236	2,755	9	—	3,001	32	157	3,292
Greater than 500 ppm sulfur .....	—	772	3,776	60	—	4,608	-60	550	5,828
Residual Fuel Oil .....	371	2,579	3,858	-53	203	6,958	347	3,354	13,793
Less than 0.31 percent sulfur .....	258	4	738	—	—	1,000	188	—	1,480
0.31 to 1.00 percent sulfur .....	—	44	306	-53	22	319	16	665	1,720
Greater than 1.00 percent sulfur .....	113	2,531	2,814	—	181	5,639	143	2,689	10,593
Petrochemical Feedstocks .....	144	3,409	2,513	—	—	6,066	—	1	7,079
Naphtha for Petro. Feed. Use .....	115	1,772	1,185	—	—	3,072	—	1	3,862
Other Oils for Petro. Feed. Use .....	29	1,637	1,328	—	—	2,994	—	—	3,217
Special Naphthas .....	97	381	—	266	—	744	—	12	834
Lubricants .....	23	381	1,707	798	—	2,909	—	686	4,287
Waxes .....	—	20	45	22	—	87	—	—	108
Petroleum Coke .....	469	4,931	6,390	183	42	12,015	821	4,814	24,187
Marketable .....	218	3,672	5,032	168	—	9,090	572	3,732	17,743
Catalyst .....	251	1,259	1,358	15	42	2,925	249	1,082	6,444
Asphalt and Road Oil .....	248	450	1,136	887	-7	2,714	1,245	919	11,330
Still Gas .....	750	3,643	4,540	217	78	9,228	770	3,884	19,415
Miscellaneous Products .....	115	569	623	15	11	1,333	116	431	2,432
<b>Total .....</b>	<b>30,997</b>	<b>68,272</b>	<b>90,457</b>	<b>14,450</b>	<b>4,038</b>	<b>208,214</b>	<b>20,950</b>	<b>96,316</b>	<b>578,923</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	<b>-792</b>	<b>-5,472</b>	<b>-8,242</b>	<b>-6</b>	<b>-106</b>	<b>-14,618</b>	<b>-1,055</b>	<b>-6,173</b>	<b>-30,490</b>

— = No Data Reported.

<sup>1</sup> Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2017**  
(Thousand Barrels, Except Where Noted)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
<b>Crude Oil</b> .....	<b>30,229</b>	<b>2,940</b>	<b>33,169</b>	<b>72,232</b>	<b>14,790</b>	<b>23,949</b>	<b>110,971</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>659</b>	<b>-</b>	<b>659</b>	<b>1,819</b>	<b>53</b>	<b>1,104</b>	<b>2,976</b>
Natural Gas Liquids .....	659	-	659	1,819	53	1,104	2,976
Normal Butane .....	202	-	202	337	-	54	391
Isobutane .....	457	-	457	1,083	53	473	1,609
Natural Gasoline .....	-	-	-	399	-	577	976
<b>Other Liquids</b> .....	<b>-14,662</b>	<b>67</b>	<b>-14,595</b>	<b>-32,984</b>	<b>-5,373</b>	<b>-10,661</b>	<b>-49,018</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons .....	158	122	280	993	453	311	1,757
Hydrogen .....	83	2	85	705	272	201	1,178
Oxygenates (excluding Fuel Ethanol) .....	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE) .....	-	-	-	-	-	-	-
All Other Oxygenates <sup>1</sup> .....	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol) .....	75	120	195	249	181	110	540
Fuel Ethanol .....	75	97	172	157	144	104	405
Renewable Diesel Fuel .....	-	23	23	92	37	6	135
Other Renewable Fuels .....	-	-	-	-	-	-	-
Other Hydrocarbons .....	-	-	-	39	-	-	39
Unfinished Oils (net) .....	2,248	-68	2,180	1,767	272	-480	1,559
Naphthas and Lighter .....	1,195	-5	1,190	969	-118	-309	542
Kerosene and Light Gas Oils .....	-789	-	-789	-134	-128	22	-240
Heavy Gas Oils .....	1,656	-62	1,594	916	523	83	1,522
Residuum .....	186	-1	185	16	-5	-276	-265
Motor Gasoline Blend.Comp. (MGBC)(net) .....	-17,068	13	-17,055	-35,744	-6,098	-10,492	-52,334
Reformulated - RBOB .....	-10,795	-	-10,795	-8,473	-227	-125	-8,825
Conventional .....	-6,273	13	-6,260	-27,271	-5,871	-10,367	-43,509
CBOB .....	-5,989	-18	-6,007	-27,106	-5,855	-10,264	-43,225
GTAB .....	-	-	-	-	-	-	-
Other .....	-284	31	-253	-165	-16	-103	-284
Aviation Gasoline Blend. Comp. (net) .....	-	-	-	-	-	-	-
<b>Total Input to Refineries</b> .....	<b>16,226</b>	<b>3,007</b>	<b>19,233</b>	<b>41,067</b>	<b>9,470</b>	<b>14,392</b>	<b>64,929</b>
<b>Atmospheric Crude Oil Distillation</b>							
Gross Input (daily average) .....	1,008	99	1,106	2,393	495	799	3,688
Operable Capacity (daily average) .....	1,083	98	1,182	2,607	520	884	4,011
Operable Utilization Rate (percent) <sup>2</sup> .....	93.0	100.3	93.6	91.8	95.3	90.4	92.0
<b>Downstream Processing</b>							
<b>Fresh Feed Input (daily average)</b>							
Catalytic Reforming .....	189	18	207	487	75	141	703
Catalytic Cracking .....	410	16	426	777	153	203	1,134
Catalytic Hydrocracking .....	33	-	33	215	58	59	331
Delayed and Fluid Coking .....	27	-	27	361	48	83	491
<b>Crude Oil Qualities</b>							
Sulfur Content, Weighted Average (percent) .....	0.71	1.79	0.82	1.66	1.63	0.82	1.47
API Gravity, Weighted Average (degrees) .....	34.66	31.57	34.35	31.64	28.80	37.00	32.36
<b>Operable Capacity (daily average)</b> .....	<b>1,083</b>	<b>98</b>	<b>1,182</b>	<b>2,607</b>	<b>520</b>	<b>884</b>	<b>4,011</b>
Operating .....	1,083	98	1,182	2,585	520	884	3,989
Idle .....	-	-	-	22	-	-	22
<b>Alaskan Crude Oil Receipts</b> .....	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

See footnotes at end of table.

**Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2017**  
(Thousand Barrels, Except Where Noted) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
<b>Crude Oil</b> .....	<b>20,396</b>	<b>84,738</b>	<b>106,494</b>	<b>7,323</b>	<b>4,155</b>	<b>223,106</b>	<b>20,119</b>	<b>76,439</b>	<b>463,804</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>514</b>	<b>3,208</b>	<b>4,872</b>	<b>46</b>	<b>181</b>	<b>8,821</b>	<b>466</b>	<b>2,374</b>	<b>15,296</b>
Natural Gas Liquids .....	514	3,208	4,872	46	181	8,821	466	2,374	15,296
Normal Butane .....	218	896	1,195	1	—	2,310	114	674	3,691
Isobutane .....	88	1,284	1,647	42	181	3,242	209	880	6,397
Natural Gasoline .....	208	1,028	2,030	3	—	3,269	143	820	5,208
<b>Other Liquids</b> .....	<b>-7,636</b>	<b>-35,943</b>	<b>-31,831</b>	<b>-1,675</b>	<b>-1,472</b>	<b>-78,557</b>	<b>-5,454</b>	<b>-34,768</b>	<b>-182,392</b>
Hydrogen/Oxygenates/Renewables/									
Other Hydrocarbons .....	280	1,616	2,095	167	108	4,266	533	1,489	8,325
Hydrogen .....	15	1,554	1,765	91	46	3,471	219	1,311	6,264
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	265	62	330	76	62	795	314	178	2,022
Fuel Ethanol .....	226	60	173	33	57	549	273	105	1,504
Renewable Diesel Fuel .....	39	2	157	43	5	246	41	73	518
Other Renewable Fuels .....	—	—	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	—	—	—	—	—	39
Unfinished Oils (net) .....	116	-5,021	10,347	-30	29	5,441	-380	2,925	11,725
Naphthas and Lighter .....	-87	-5,031	-227	5	-1	-5,341	-10	-126	-3,745
Kerosene and Light Gas Oils .....	107	-742	1,833	-42	-34	1,122	-320	-205	-432
Heavy Gas Oils .....	89	247	6,777	62	64	7,239	69	2,862	13,286
Residuum .....	7	505	1,964	-55	—	2,421	-119	394	2,616
Motor Gasoline Blend.Comp. (MGBBC)(net) .....	-8,034	-32,538	-44,275	-1,812	-1,609	-88,268	-5,607	-39,182	-202,446
Reformulated - RBOB .....	-1,220	-7,268	-3,083	—	-822	-12,393	—	-28,545	-60,558
Conventional .....	-6,814	-25,270	-41,192	-1,812	-787	-75,875	-5,607	-10,637	-141,888
CBOB .....	-6,748	-22,420	-39,763	-1,778	-720	-71,429	-5,498	-10,663	-136,822
GTAB .....	—	—	—	—	—	—	—	—	—
Other .....	-66	-2,850	-1,429	-34	-67	-4,446	-109	26	-5,066
Aviation Gasoline Blend. Comp. (net) .....	2	—	2	—	—	4	—	—	4
<b>Total Input to Refineries</b> .....	<b>13,274</b>	<b>52,003</b>	<b>79,535</b>	<b>5,694</b>	<b>2,864</b>	<b>153,370</b>	<b>15,131</b>	<b>44,045</b>	<b>296,708</b>
<b>Atmospheric Crude Oil Distillation</b>									
Gross Input (daily average) .....	697	2,893	3,675	220	139	7,624	669	2,701	15,788
Operable Capacity (daily average) .....	731	4,959	3,699	256	124	9,769	693	2,848	18,503
Operable Utilization Rate (percent) <sup>2</sup> .....	95.4	58.3	99.3	85.9	112.2	78.0	96.6	94.8	85.3
<b>Downstream Processing</b>									
<b>Fresh Feed Input (daily average)</b>									
Catalytic Reforming .....	150	360	627	37	28	1,202	100	431	2,642
Catalytic Cracking .....	176	816	1,137	20	35	2,183	185	783	4,710
Catalytic Hydrocracking .....	44	326	484	16	18	888	26	504	1,782
Delayed and Fluid Coking .....	29	439	590	27	—	1,084	72	455	2,129
<b>Crude Oil Qualities</b>									
Sulfur Content, Weighted Average (percent) .....	0.60	1.38	1.31	1.53	0.70	1.27	1.48	1.36	1.31
API Gravity, Weighted Average (degrees) .....	39.75	32.95	30.28	31.54	39.70	32.42	32.49	28.08	31.80
<b>Operable Capacity (daily average)</b> .....	<b>731</b>	<b>4,959</b>	<b>3,699</b>	<b>256</b>	<b>124</b>	<b>9,769</b>	<b>693</b>	<b>2,848</b>	<b>18,503</b>
Operating .....	731	2,422	3,699	256	124	7,232	683	2,848	15,934
Idle .....	—	2,537	—	—	—	2,537	10	—	2,569
<b>Alaskan Crude Oil Receipts</b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>12,755</b>	<b>12,755</b>

— = No Data Reported.

NA = Not Available.

<sup>1</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

<sup>2</sup> Represents gross input divided by operable calendar day capacity.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

**Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, September 2017**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids .....	376	-22	354	2,326	72	369	2,767
Natural Gas Liquids .....	10	-22	-12	1,216	-79	252	1,389
Ethane .....	-	-	-	-	-	-	-
Propane .....	676	21	697	1,585	218	360	2,163
Normal Butane .....	-647	-23	-670	-380	-218	-47	-645
Isobutane .....	-19	-20	-39	11	-79	-61	-129
Natural Gasoline .....	-	-	-	-	-	-	-
Refinery Olefins .....	366	-	366	1,110	151	117	1,378
Ethylene .....	17	-	17	-	-	-	-
Propylene .....	394	-	394	853	151	117	1,121
Butylene .....	-78	-	-78	257	-	-	257
Isobutylene .....	33	-	33	-	-	-	-
Finished Motor Gasoline .....	749	1,214	1,963	6,543	1,853	2,344	10,740
Reformulated .....	749	-	749	-	-	-	-
Reformulated Blended with Fuel Ethanol .....	749	-	749	-	-	-	-
Reformulated Other .....	-	-	-	-	-	-	-
Conventional .....	-	1,214	1,214	6,543	1,853	2,344	10,740
Conventional Blended with Fuel Ethanol .....	-	970	970	1,621	1,445	1,053	4,119
Ed55 and Lower .....	-	970	970	1,621	1,445	1,053	4,119
Greater than Ed55 .....	-	-	-	-	-	-	-
Conventional Other .....	-	244	244	4,922	408	1,291	6,621
Finished Aviation Gasoline .....	-	-	-	-	36	-	36
Kerosene-Type Jet Fuel .....	3,038	-	3,038	6,758	876	955	8,589
Kerosene .....	182	-	182	-	-	13	13
Distillate Fuel Oil .....	8,836	796	9,632	17,840	4,704	9,150	31,694
15 ppm sulfur and under .....	8,054	704	8,758	18,013	4,518	9,218	31,749
Greater than 15 ppm to 500 ppm sulfur .....	7	72	79	-60	25	-61	-96
Greater than 500 ppm sulfur .....	775	20	795	-113	161	-7	41
Residual Fuel Oil .....	1,517	1	1,518	1,361	216	91	1,668
Less than 0.31 percent sulfur .....	210	1	211	80	-	-	80
0.31 to 1.00 percent sulfur .....	513	-	513	145	61	-	206
Greater than 1.00 percent sulfur .....	794	-	794	1,136	155	91	1,382
Petrochemical Feedstocks .....	117	-	117	895	-	-	895
Naphtha for Petro. Feed. Use .....	117	-	117	672	-	-	672
Other Oils for Petro. Feed. Use .....	-	-	-	223	-	-	223
Special Naphthas .....	-	23	23	41	-	14	55
Lubricants .....	240	196	436	-	-	256	256
Waxes .....	-	-5	-5	-	-	26	26
Petroleum Coke .....	837	19	856	4,159	635	887	5,681
Marketable .....	184	-	184	3,013	465	687	4,165
Catalyst .....	653	19	672	1,146	170	200	1,516
Asphalt and Road Oil .....	569	683	1,252	2,913	1,548	474	4,935
Still Gas .....	1,287	57	1,344	2,742	596	851	4,189
Miscellaneous Products .....	53	23	76	317	100	59	476
<b>Total .....</b>	<b>17,801</b>	<b>2,985</b>	<b>20,786</b>	<b>45,895</b>	<b>10,636</b>	<b>15,489</b>	<b>72,020</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	-1,575	22	-1,553	-4,828	-1,166	-1,097	-7,091

See footnotes at end of table.

**Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, September 2017**  
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids .....	450	2,894	5,339	26	68	8,777	507	1,959	14,364
Natural Gas Liquids .....	57	1,415	2,387	13	68	3,940	449	1,648	7,414
Ethane .....	1	72	17	—	—	90	—	—	90
Propane .....	292	1,493	2,270	47	50	4,152	302	1,035	8,349
Normal Butane .....	-180	185	-53	-34	19	-63	134	445	-799
Isobutane .....	-56	-335	153	—	-1	-239	13	168	-226
Natural Gasoline .....	—	—	—	—	—	—	—	—	—
Refinery Olefins .....	393	1,479	2,952	13	—	4,837	58	311	6,950
Ethylene .....	—	3	—	—	—	3	—	—	20
Propylene .....	394	1,708	3,043	13	—	5,158	19	359	7,051
Butylene .....	-1	-219	-91	—	—	-311	39	-48	-141
Isobutylene .....	—	-13	—	—	—	-13	—	—	20
Finished Motor Gasoline .....	3,461	6,413	11,628	477	778	22,757	4,772	3,192	43,424
Reformulated .....	—	—	—	—	—	—	—	602	1,351
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	602	1,351
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	3,461	6,413	11,628	477	778	22,757	4,772	2,590	42,073
Conventional Blended with Fuel Ethanol .....	2,165	598	1,708	345	562	5,378	2,766	323	13,556
Ed55 and Lower .....	2,161	598	1,708	345	562	5,374	2,766	323	13,552
Greater than Ed55 .....	4	—	—	—	—	4	—	—	4
Conventional Other .....	1,296	5,815	9,920	132	216	17,379	2,006	2,267	28,517
Finished Aviation Gasoline .....	109	61	99	—	—	269	4	43	352
Kerosene-Type Jet Fuel .....	1,452	7,669	13,108	227	—	22,456	1,100	14,634	49,817
Kerosene .....	2	2	-51	6	—	-41	—	1	155
Distillate Fuel Oil .....	6,375	24,074	36,844	2,625	1,798	71,716	6,508	16,281	135,831
15 ppm sulfur and under .....	6,374	23,071	30,313	2,556	1,798	64,112	6,536	15,583	126,738
Greater than 15 ppm to 500 ppm sulfur .....	1	236	2,755	9	—	3,001	32	157	3,173
Greater than 500 ppm sulfur .....	—	767	3,776	60	—	4,603	-60	541	5,920
Residual Fuel Oil .....	371	2,579	3,871	-53	203	6,971	347	3,354	13,858
Less than 0.31 percent sulfur .....	258	14	738	—	—	1,010	188	—	1,489
0.31 to 1.00 percent sulfur .....	—	45	306	-53	22	320	16	665	1,720
Greater than 1.00 percent sulfur .....	113	2,520	2,827	—	181	5,641	143	2,689	10,649
Petrochemical Feedstocks .....	144	3,409	2,513	—	—	6,066	—	1	7,079
Naphtha for Petro. Feed. Use .....	115	1,772	1,185	—	—	3,072	—	1	3,862
Other Oils for Petro. Feed. Use .....	29	1,637	1,328	—	—	2,994	—	—	3,217
Special Naphthas .....	97	381	—	266	—	744	—	12	834
Lubricants .....	23	381	1,707	798	—	2,909	—	686	4,287
Waxes .....	—	20	45	22	—	87	—	—	108
Petroleum Coke .....	469	4,931	6,390	183	42	12,015	821	4,814	24,187
Marketable .....	218	3,672	5,032	168	—	9,090	572	3,732	17,743
Catalyst .....	251	1,259	1,358	15	42	2,925	249	1,082	6,444
Asphalt and Road Oil .....	248	450	1,123	887	-7	2,701	1,245	919	11,052
Still Gas .....	750	3,643	4,540	217	78	9,228	770	3,884	19,415
Miscellaneous Products .....	115	569	623	15	11	1,333	116	431	2,432
<b>Total .....</b>	<b>14,066</b>	<b>57,476</b>	<b>87,779</b>	<b>5,696</b>	<b>2,971</b>	<b>167,988</b>	<b>16,190</b>	<b>50,211</b>	<b>327,195</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	-792	-5,473	-8,244	-2	-107	-14,618	-1,059	-6,166	-30,487

— = No Data Reported.

<sup>1</sup> Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."



**Table 32. Blender Net Inputs of Petroleum Products by PAD District, September 2017**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
<b>Hydrocarbon Gas Liquids</b> .....	948	—	948	151	71	436	658
Natural Gas Liquids .....	948	—	948	151	71	436	658
Normal Butane .....	779	—	779	151	59	353	563
Isobutane .....	—	—	—	—	—	—	—
Natural Gasoline .....	169	—	169	—	12	83	95
<b>Other Liquids</b> .....	86,664	6,056	92,720	44,436	8,722	13,153	66,311
Oxygenates/Renewables .....	9,360	648	10,008	4,826	1,055	1,488	7,369
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	9,360	648	10,008	4,826	1,055	1,488	7,369
Fuel Ethanol .....	9,117	609	9,726	4,626	956	1,424	7,006
Renewable Diesel Fuel .....	243	39	282	200	99	64	363
Other Renewable Fuels .....	—	—	—	—	—	—	—
Unfinished Oils (net) .....	1	—	1	195	—	—	195
Naphthas and Lighter .....	—	—	—	—	—	—	—
Kerosene and Light Gas Oils .....	—	—	—	—	—	—	—
Heavy Gas Oils .....	1	—	1	-31	—	—	-31
Residuum .....	—	—	—	226	—	—	226
Motor Gasoline Blend.Comp. (MGBC)(net) .....	77,303	5,408	82,711	39,415	7,667	11,665	58,747
Reformulated - RBOB .....	26,183	175	26,358	7,146	1,250	900	9,296
Conventional .....	51,120	5,233	56,353	32,269	6,417	10,765	49,451
CBOB .....	41,168	5,233	46,401	32,223	6,417	10,755	49,395
GTAB .....	3,262	—	3,262	—	—	—	—
Other .....	6,690	—	6,690	46	—	10	56
Aviation Gasoline Blend. Comp. (net) .....	—	—	—	—	—	—	—
<b>Total Input</b> .....	87,612	6,056	93,668	44,587	8,793	13,589	66,969

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
<b>Hydrocarbon Gas Liquids</b> .....	111	893	103	45	—	1,152	80	16	2,854
Natural Gas Liquids .....	111	893	103	45	—	1,152	80	16	2,854
Normal Butane .....	94	397	103	45	—	639	49	16	2,046
Isobutane .....	—	—	—	—	—	—	4	—	4
Natural Gasoline .....	17	496	—	—	—	513	27	—	804
<b>Other Liquids</b> .....	16,820	9,904	2,577	8,705	1,068	39,074	4,684	46,082	248,871
Oxygenates/Renewables .....	1,775	887	280	1,011	121	4,074	644	5,276	27,371
Oxygenates (excluding Fuel Ethanol) .....	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE) .....	—	—	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup> .....	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol) .....	1,775	887	280	1,011	121	4,074	644	5,276	27,371
Fuel Ethanol .....	1,722	793	280	951	110	3,856	628	4,739	25,955
Renewable Diesel Fuel .....	53	94	—	60	11	218	16	537	1,416
Other Renewable Fuels .....	—	—	—	—	—	—	—	—	—
Unfinished Oils (net) .....	—	—	—	—	—	—	—	1	197
Naphthas and Lighter .....	—	—	—	—	—	—	—	1	1
Kerosene and Light Gas Oils .....	—	—	—	—	—	—	—	—	—
Heavy Gas Oils .....	—	—	—	—	—	—	—	—	-30
Residuum .....	—	—	—	—	—	—	—	—	226
Motor Gasoline Blend.Comp. (MGBC)(net) .....	15,045	9,017	2,297	7,694	947	35,000	4,040	40,805	221,303
Reformulated - RBOB .....	6,232	4,283	—	—	—	10,515	—	30,289	76,458
Conventional .....	8,813	4,734	2,297	7,694	947	24,485	4,040	10,516	144,845
CBOB .....	8,813	-348	1,608	7,647	947	18,667	4,039	10,537	129,039
GTAB .....	—	—	—	—	—	—	—	—	3,262
Other .....	—	5,082	689	47	—	5,818	1	-21	12,544
Aviation Gasoline Blend. Comp. (net) .....	—	—	—	—	—	—	—	—	—
<b>Total Input</b> .....	16,931	10,797	2,680	8,750	1,068	40,226	4,764	46,098	251,725

— = No Data Reported.

<sup>1</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 33. Blender Net Production of Petroleum Products by PAD District, September 2017**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Finished Motor Gasoline .....	87,370	6,016	93,386	44,194	8,697	13,525	66,416
Reformulated .....	37,586	153	37,739	8,171	1,389	1,003	10,563
Reformulated Blended with Fuel Ethanol .....	37,586	153	37,739	8,171	1,389	1,003	10,563
Reformulated Other .....	-	-	-	-	-	-	-
Conventional .....	49,784	5,863	55,647	36,023	7,308	12,522	55,853
Conventional Blended with Fuel Ethanol .....	52,703	5,873	58,576	37,708	8,055	12,821	58,584
Ed55 and Lower .....	52,663	5,873	58,536	37,700	8,027	12,759	58,486
Greater than Ed55 .....	40	-	40	8	28	62	98
Conventional Other .....	-2,919	-10	-2,929	-1,685	-747	-299	-2,731
Finished Aviation Gasoline .....	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel .....	112	-	112	-	-1	-1	-2
Kerosene .....	-	-	-	-	-	-	-
Distillate Fuel Oil .....	115	39	154	197	95	66	358
15 ppm sulfur and under .....	102	39	141	197	95	66	358
Greater than 15 ppm to 500 ppm sulfur .....	35	0	35	-	-	84	84
Greater than 500 ppm sulfur .....	-22	-	-22	-	-	-84	-84
Residual Fuel Oil .....	15	-	15	-31	-	-36	-67
Less than 0.31 percent sulfur .....	1	-	1	-	-	-	-
0.31 to 1.00 percent sulfur .....	1	-	1	-	-	-	-
Greater than 1.00 percent sulfur .....	13	-	13	-31	-	-36	-67
Special Naphthas .....	-	-	-	-	-	-	-
Lubricants .....	-	-	-	-	-	-	-
Asphalt and Road Oil .....	1	-	1	226	1	37	264
Miscellaneous Products .....	-	-	-	-	-	-	-
<b>Total Production .....</b>	<b>87,613</b>	<b>6,055</b>	<b>93,668</b>	<b>44,586</b>	<b>8,792</b>	<b>13,591</b>	<b>66,969</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	-1	1	0	1	1	-2	0

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Finished Motor Gasoline .....	16,878	10,702	2,678	8,695	1,057	40,010	4,747	45,564	250,123
Reformulated .....	6,988	6,608	-	-	-	13,596	-	33,648	95,546
Reformulated Blended with Fuel Ethanol .....	6,988	6,608	-	-	-	13,596	-	33,648	95,546
Reformulated Other .....	-	-	-	-	-	-	-	-	-
Conventional .....	9,890	4,094	2,678	8,695	1,057	26,414	4,747	11,916	154,577
Conventional Blended with Fuel Ethanol .....	10,056	1,232	2,775	9,412	1,095	24,570	6,159	13,651	161,540
Ed55 and Lower .....	10,049	1,232	2,775	9,398	1,095	24,549	6,145	13,648	161,364
Greater than Ed55 .....	7	-	-	14	-	21	14	3	176
Conventional Other .....	-166	2,862	-97	-717	-38	1,844	-1,412	-1,735	-6,963
Finished Aviation Gasoline .....	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel .....	-	-5	8	-	-	3	54	-61	106
Kerosene .....	-	-	-	-	-	-	-	9	9
Distillate Fuel Oil .....	53	99	-8	59	10	213	-41	593	1,277
15 ppm sulfur and under .....	53	94	-8	59	10	208	-41	584	1,250
Greater than 15 ppm to 500 ppm sulfur .....	-	-	-	-	-	-	-	-	119
Greater than 500 ppm sulfur .....	-	5	-	-	-	5	-	9	-92
Residual Fuel Oil .....	-	0	-13	-	-	-13	-	-	-65
Less than 0.31 percent sulfur .....	-	-10	-	-	-	-10	-	-	-9
0.31 to 1.00 percent sulfur .....	-	-1	-	-	-	-1	-	-	0
Greater than 1.00 percent sulfur .....	-	11	-13	-	-	-2	-	-	-56
Special Naphthas .....	-	-	-	-	-	-	-	-	-
Lubricants .....	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil .....	-	-	13	-	-	13	-	-	278
Miscellaneous Products .....	-	-	-	-	-	-	-	-	-
<b>Total Production .....</b>	<b>16,931</b>	<b>10,796</b>	<b>2,678</b>	<b>8,754</b>	<b>1,067</b>	<b>40,226</b>	<b>4,760</b>	<b>46,105</b>	<b>251,728</b>
Processing Gain(-) or Loss(+) <sup>1</sup> .....	0	1	2	-4	1	0	4	-7	-3

- = No Data Reported.

<sup>1</sup> Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2017**  
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
<b>Crude Oil</b>	<b>9,361</b>	<b>701</b>	<b>10,062</b>	<b>9,551</b>	<b>2,319</b>	<b>1,587</b>	<b>13,457</b>
<b>Petroleum Products</b>	<b>13,765</b>	<b>2,121</b>	<b>15,886</b>	<b>31,356</b>	<b>8,212</b>	<b>11,644</b>	<b>51,212</b>
Hydrocarbon Gas Liquids	773	38	811	4,010	575	1,561	6,146
Natural Gas Liquids	429	38	467	2,655	549	1,557	4,761
Ethane	—	—	—	—	—	—	—
Propane	118	2	120	772	44	1,028	1,844
Normal Butane	210	23	233	1,524	446	231	2,201
Isobutane	101	13	114	298	59	137	494
Natural Gasoline	—	—	—	61	—	161	222
Refinery Olefins	344	0	344	1,355	26	4	1,385
Ethylene	—	—	—	—	—	—	—
Propylene	142	0	142	651	26	4	681
Butylene	170	0	170	704	0	0	704
Isobutylene	32	0	32	0	0	0	0
Oxygenates/Renewable Fuels/Other Hydrocarbons	71	111	182	71	62	32	165
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup>	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	71	111	182	54	62	32	148
Fuel Ethanol	71	107	178	32	48	28	108
Renewable Diesel Fuel	—	4	4	22	14	4	40
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	17	—	—	17
Unfinished Oils	4,272	397	4,669	8,635	865	4,399	13,899
Naphthas and Lighter	843	243	1,086	1,978	236	1,302	3,516
Kerosene and Light Gas Oils	587	—	587	1,640	292	436	2,368
Heavy Gas Oils	2,062	146	2,208	3,667	317	1,650	5,634
Residuum	780	8	788	1,350	20	1,011	2,381
Motor Gasoline Blending Components (MGBC)	4,647	224	4,871	7,870	2,048	2,486	12,404
Reformulated - RBOB	1,581	—	1,581	1,059	65	—	1,124
Conventional	3,066	224	3,290	6,811	1,983	2,486	11,280
CBOB	378	153	531	2,650	1,237	1,582	5,469
GTAB	—	—	—	—	—	—	—
Other	2,688	71	2,759	4,161	746	904	5,811
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	25	25	919	96	298	1,313
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	25	25	919	96	298	1,313
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	25	25	919	96	298	1,313
Finished Aviation Gasoline	—	—	—	—	57	—	57
Kerosene-Type Jet Fuel	563	—	563	1,193	328	351	1,872
Kerosene	190	2	192	68	—	16	84
Distillate Fuel Oil	2,185	209	2,394	4,099	1,334	1,568	7,001
15 ppm sulfur and under	1,622	54	1,676	3,895	1,075	1,405	6,375
Greater than 15 ppm to 500 ppm sulfur	51	132	183	—	54	26	80
Greater than 500 ppm sulfur	512	23	535	204	205	137	546
Residual Fuel Oil	526	15	541	829	138	46	1,013
Less than 0.31 percent sulfur	110	13	123	70	—	—	70
0.31 to 1.00 percent sulfur	65	2	67	81	21	—	102
Greater than 1.00 percent sulfur	351	—	351	678	117	46	841
Petrochemical Feedstocks	87	—	87	619	—	—	619
Naphtha for Petro. Feed. Use	87	—	87	476	—	—	476
Other Oils for Petro. Feed. Use	—	—	—	143	—	—	143
Special Naphthas	—	18	18	57	—	18	75
Lubricants	280	240	520	—	—	306	306
Waxes	—	485	485	—	—	50	50
Petroleum Coke	—	—	—	570	773	54	1,397
Marketable	—	—	—	570	773	54	1,397
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	161	347	508	2,333	1,912	453	4,698
Miscellaneous Products	10	10	20	83	24	6	113
<b>Total Stocks, All Oils</b>	<b>23,126</b>	<b>2,822</b>	<b>25,948</b>	<b>40,907</b>	<b>10,531</b>	<b>13,231</b>	<b>64,669</b>

See footnotes at end of table.

**Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2017**  
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
<b>Crude Oil</b>	<b>1,919</b>	<b>28,132</b>	<b>17,239</b>	<b>1,036</b>	<b>362</b>	<b>48,688</b>	<b>2,357</b>	<b>22,247</b>	<b>96,811</b>
<b>Petroleum Products</b>	<b>10,698</b>	<b>58,880</b>	<b>49,548</b>	<b>3,700</b>	<b>1,583</b>	<b>124,409</b>	<b>9,927</b>	<b>52,523</b>	<b>253,957</b>
Hydrocarbon Gas Liquids	2,555	2,044	4,915	18	175	9,707	422	1,709	18,795
Natural Gas Liquids	1,749	1,839	4,049	18	175	7,830	401	1,634	15,093
Ethane	183	—	—	—	—	183	—	—	183
Propane	463	450	191	3	3	1,110	54	92	3,220
Normal Butane	825	1,076	2,793	11	148	4,853	230	1,050	8,567
Isobutane	197	237	761	4	10	1,209	102	489	2,408
Natural Gasoline	81	76	304	—	14	475	15	3	715
Refinery Olefins	806	205	866	0	0	1,877	21	75	3,702
Ethylene	0	—	—	—	—	0	—	—	0
Propylene	797	34	362	0	0	1,193	7	20	2,043
Butylene	9	171	504	0	0	684	14	55	1,627
Isobutylene	0	0	0	0	0	0	0	0	32
Oxygenates/Renewable Fuels/Other Hydrocarbons	29	62	184	66	14	355	117	241	1,060
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates <sup>1</sup>	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	29	62	184	66	14	355	117	241	1,043
Fuel Ethanol	24	48	61	31	11	175	113	31	605
Renewable Diesel Fuel	5	14	123	35	3	180	4	210	438
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	17
Unfinished Oils	2,848	22,427	14,852	888	606	41,621	2,989	20,208	83,386
Naphthas and Lighter	1,206	7,246	2,229	205	159	11,045	716	3,210	19,573
Kerosene and Light Gas Oils	606	3,935	2,333	185	248	7,307	591	3,656	14,509
Heavy Gas Oils	406	9,059	7,897	409	199	17,970	1,279	10,509	37,600
Residuum	630	2,187	2,393	89	—	5,299	403	2,833	11,704
Motor Gasoline Blending Components (MGBC)	2,874	13,018	12,946	305	355	29,498	2,863	14,308	63,944
Reformulated - RBOB	211	1,175	304	—	—	1,690	—	5,220	9,615
Conventional	2,663	11,843	12,642	305	355	27,808	2,863	9,088	54,329
CBOB	1,069	4,280	6,449	213	14	12,025	1,554	2,155	21,734
GTAB	—	—	—	—	—	—	—	—	—
Other	1,594	7,563	6,193	92	341	15,783	1,309	6,933	32,595
Aviation Gasoline Blending Components	4	—	7	—	—	11	—	—	11
Finished Motor Gasoline	391	1,459	1,413	24	84	3,371	636	757	6,102
Reformulated	—	—	—	—	—	—	—	19	19
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	19	19
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	391	1,459	1,413	24	84	3,371	636	738	6,083
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	40	—	40
Ed55 and Lower	—	—	—	—	—	—	40	—	40
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	391	1,459	1,413	24	84	3,371	596	738	6,043
Finished Aviation Gasoline	47	102	169	—	—	318	9	148	532
Kerosene-Type Jet Fuel	317	2,788	2,792	65	—	5,962	339	3,957	12,693
Kerosene	29	8	67	4	—	108	1	3	388
Distillate Fuel Oil	952	6,748	6,023	314	146	14,183	1,543	5,443	30,564
15 ppm sulfur and under	923	6,053	4,760	210	146	12,092	1,367	4,535	26,045
Greater than 15 ppm to 500 ppm sulfur	29	125	524	11	—	689	142	221	1,315
Greater than 500 ppm sulfur	—	570	739	93	—	1,402	34	687	3,204
Residual Fuel Oil	93	2,495	1,262	49	68	3,967	241	2,938	8,700
Less than 0.31 percent sulfur	19	—	205	—	—	224	32	—	449
0.31 to 1.00 percent sulfur	—	154	60	49	8	271	5	460	905
Greater than 1.00 percent sulfur	74	2,341	997	—	60	3,472	204	2,478	7,346
Petrochemical Feedstocks	158	1,577	534	3	—	2,272	—	3	2,981
Naphtha for Petro. Feed. Use	35	954	402	3	—	1,394	—	3	1,960
Other Oils for Petro. Feed. Use	123	623	132	—	—	878	—	—	1,021
Special Naphthas	78	507	—	124	—	709	—	47	849
Lubricants	43	1,614	1,884	761	—	4,302	—	650	5,778
Waxes	—	64	93	58	—	215	—	—	750
Petroleum Coke	40	3,546	1,730	—	—	5,316	85	1,503	8,301
Marketable	40	3,546	1,730	—	—	5,316	85	1,503	8,301
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	220	207	599	1,020	116	2,162	668	509	8,545
Miscellaneous Products	20	214	78	1	19	332	14	99	578
<b>Total Stocks, All Oils</b>	<b>12,617</b>	<b>87,012</b>	<b>66,787</b>	<b>4,736</b>	<b>1,945</b>	<b>173,097</b>	<b>12,284</b>	<b>74,770</b>	<b>350,768</b>

— = No Data Reported.

<sup>1</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, September 2017

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids .....	1.2	-0.8	1.0	3.1	0.5	1.6	2.4
Finished Motor Gasoline <sup>1</sup> .....	52.5	38.4	51.3	53.9	50.6	49.1	52.5
Finished Aviation Gasoline <sup>2</sup> .....	—	—	—	—	0.2	—	0.0
Kerosene-Type Jet Fuel .....	9.3	—	8.6	9.0	5.7	4.0	7.6
Kerosene .....	0.6	—	0.5	—	—	0.1	0.0
Distillate Fuel Oil <sup>3</sup> .....	27.1	26.9	27.1	23.8	30.4	38.6	27.7
Residual Fuel Oil .....	4.7	0.0	4.3	1.8	1.4	0.4	1.5
Naphtha for Petro. Feed. Use .....	0.4	—	0.3	0.9	—	—	0.6
Other Oils for Petro. Feed. Use .....	—	—	—	0.3	—	—	0.2
Special Naphthas .....	—	0.8	0.1	0.1	—	0.1	0.1
Lubricants .....	0.7	6.8	1.2	—	—	1.1	0.2
Waxes .....	—	-0.2	0.0	—	—	0.1	0.0
Petroleum Coke .....	2.6	0.7	2.4	5.6	4.1	3.8	5.0
Asphalt and Road Oil .....	1.8	23.8	3.5	3.9	10.1	2.0	4.3
Still Gas .....	4.0	2.0	3.8	3.7	3.9	3.6	3.7
Miscellaneous Products .....	0.2	0.8	0.2	0.4	0.7	0.3	0.4
Processing Gain(-) or Loss(+) <sup>4</sup> .....	-4.8	0.8	-4.4	-6.4	-7.6	-4.6	-6.2

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids .....	2.2	3.6	4.5	0.4	1.6	3.8	2.5	2.4	3.0
Finished Motor Gasoline <sup>1</sup> .....	52.4	43.9	42.9	29.9	50.8	43.8	48.3	49.5	47.5
Finished Aviation Gasoline <sup>2</sup> .....	0.5	0.1	0.1	—	—	0.1	0.0	0.1	0.1
Kerosene-Type Jet Fuel .....	7.1	9.4	11.1	3.1	—	9.7	5.5	18.1	10.3
Kerosene .....	0.0	0.0	0.0	0.1	—	0.0	—	0.0	0.0
Distillate Fuel Oil <sup>3</sup> .....	30.9	29.6	30.9	35.0	42.4	30.8	32.4	20.1	28.1
Residual Fuel Oil .....	1.8	3.2	3.3	-0.7	4.8	3.0	1.7	4.2	2.9
Naphtha for Petro. Feed. Use .....	0.6	2.2	1.0	—	—	1.3	—	0.0	0.8
Other Oils for Petro. Feed. Use .....	0.1	2.0	1.1	—	—	1.3	—	—	0.7
Special Naphthas .....	0.5	0.5	—	3.6	—	0.3	—	0.0	0.2
Lubricants .....	0.1	0.5	1.4	10.8	—	1.3	—	0.9	0.9
Waxes .....	—	0.0	0.0	0.3	—	0.0	—	—	0.0
Petroleum Coke .....	2.3	6.1	5.4	2.5	1.0	5.2	4.1	6.0	5.0
Asphalt and Road Oil .....	1.2	0.6	1.0	12.0	-0.2	1.2	6.2	1.1	2.3
Still Gas .....	3.7	4.5	3.8	2.9	1.8	4.0	3.9	4.8	4.0
Miscellaneous Products .....	0.6	0.7	0.5	0.0	0.0	0.6	0.6	0.5	0.5
Processing Gain(-) or Loss(+) <sup>4</sup> .....	-3.9	-6.7	-7.0	-0.1	-2.5	-6.3	-5.3	-7.7	-6.3

— = No Data Reported.

<sup>1</sup> Based on net production of finished motor gasoline minus input of natural gas plant liquids, fuel ethanol, oxygenates, and net input of motor gasoline blending components.

<sup>2</sup> Based on finished aviation gasoline net production minus net input of aviation gasoline blending components.

<sup>3</sup> Based on distillate fuel oil net production minus input of biodiesel, "other" renewable diesel fuels, and "other" renewable fuels.

<sup>4</sup> Represents the arithmetic difference between input and production.

Note: Percent yield is calculated as net production (or adjusted net production) divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Calculated from data on Tables 30 and 31.

**Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, September 2017**  
(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil			
	Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>PAD District 1</b> .....	<b>85</b>	<b>634</b>	<b>1,570</b>	<b>2,289</b>
Connecticut .....	—	—	—	—
Delaware .....	—	217	—	217
Florida .....	—	—	95	95
Georgia .....	—	—	77	77
Maine .....	—	—	—	—
Maryland .....	—	—	—	—
Massachusetts .....	—	—	—	—
New Hampshire .....	—	—	—	—
New Jersey .....	85	332	958	1,375
New York .....	—	—	200	200
North Carolina .....	—	—	—	—
Pennsylvania .....	—	85	—	85
Rhode Island .....	—	—	—	—
South Carolina .....	—	—	238	238
Vermont .....	—	—	2	2
Virginia .....	—	—	—	—
West Virginia .....	—	—	—	—
<b>PAD District 2</b> .....	<b>—</b>	<b>—</b>	<b>28</b>	<b>28</b>
Illinois .....	—	—	—	—
Indiana .....	—	—	—	—
Michigan .....	—	—	28	28
Minnesota .....	—	—	—	—
North Dakota .....	—	—	—	—
Ohio .....	—	—	—	—
Wisconsin .....	—	—	—	—
<b>PAD District 3</b> .....	<b>549</b>	<b>—</b>	<b>2,066</b>	<b>2,615</b>
Alabama .....	—	—	—	—
Louisiana .....	—	—	189	189
Mississippi .....	—	—	—	—
New Mexico .....	—	—	—	—
Texas .....	549	—	1,877	2,426
<b>PAD District 4</b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
Idaho .....	—	—	—	—
Montana .....	—	—	—	—
<b>PAD District 5</b> .....	<b>—</b>	<b>161</b>	<b>1,036</b>	<b>1,197</b>
Alaska .....	—	—	—	—
California .....	—	—	1,036	1,036
Hawaii .....	—	—	—	—
Oregon .....	—	—	—	—
Washington .....	—	161	—	161
<b>U.S. Total</b> .....	<b>634</b>	<b>795</b>	<b>4,700</b>	<b>6,129</b>

— = No Data Reported.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."



**Table 37. Imports of Crude Oil and Petroleum Products by PAD District, September 2017**  
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1,2</sup></b>	<b>24,851</b>	<b>67,769</b>	<b>74,939</b>	<b>9,054</b>	<b>41,649</b>	<b>218,262</b>	<b>7,275</b>
<b>Hydrocarbon Gas Liquids</b>	<b>1,175</b>	<b>2,349</b>	<b>220</b>	<b>302</b>	<b>911</b>	<b>4,957</b>	<b>165</b>
Natural Gas Liquids	885	1,983	60	302	911	4,141	138
Ethane	—	—	—	—	—	—	—
Propane	731	1,654	—	280	707	3,372	112
Normal Butane	122	133	—	17	202	474	16
Isobutane	32	191	—	5	2	230	8
Natural Gasoline	—	5	60	—	—	65	2
Refinery Olefins	290	366	160	—	—	816	27
Ethylene	—	—	—	—	—	—	—
Propylene	290	272	—	—	—	562	19
Butylene	—	94	160	—	—	254	8
Isobutylene	—	—	—	—	—	—	—
<b>Other Liquids</b>	<b>22,061</b>	<b>373</b>	<b>16,625</b>	<b>42</b>	<b>6,243</b>	<b>45,344</b>	<b>1,511</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	42	56	309	6	1,028	1,441	48
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	308	—	—	308	10
Methyl Tertiary Butyl Ether (MTBE)	—	—	114	—	—	114	4
Other Oxygenates <sup>3</sup>	—	—	194	—	—	194	6
Renewable Fuels (including Fuel Ethanol)	42	17	—	6	1,028	1,093	36
Fuel Ethanol	—	—	—	—	254	254	8
Biomass-Based Diesel Fuel	42	17	—	6	140	205	7
Other Renewable Diesel Fuel	—	—	—	—	634	634	21
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	39	1	—	—	40	1
Unfinished Oils <sup>1</sup>	2,509	—	14,176	—	4,381	21,066	702
Naphthas and Lighter	530	—	524	—	—	1,054	35
Kerosene and Lighter Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	1,228	—	9,355	—	3,526	14,109	470
Residuum	751	—	4,297	—	855	5,903	197
Motor Gasoline Blend Comp. (MGBC)	19,510	317	2,140	36	834	22,837	761
Reformulated - RBOB	5,362	—	—	—	—	5,362	179
Conventional	14,148	317	2,140	36	834	17,475	583
CBOB	1,229	—	—	—	401	1,630	54
GTAB	2,934	—	279	—	—	3,213	107
Other	9,985	317	1,861	36	433	12,632	421
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
<b>Finished Petroleum Products</b>	<b>10,254</b>	<b>747</b>	<b>6,567</b>	<b>135</b>	<b>4,945</b>	<b>22,648</b>	<b>755</b>
Finished Motor Gasoline	829	—	312	—	101	1,242	41
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	829	—	312	—	101	1,242	41
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	829	—	312	—	101	1,242	41
Finished Aviation Gasoline	1	2	—	1	4	8	0
Kerosene-Type Jet Fuel	3,503	—	—	77	2,609	6,189	206
Bonded Aircraft Fuel	196	—	—	—	635	831	28
Other	3,307	—	—	77	1,974	5,358	179
Kerosene	314	—	—	—	—	314	10
Distillate Fuel Oil	2,248	42	200	20	855	3,365	112
15 ppm sulfur and under	1,370	39	—	20	854	2,283	76
Bonded	—	—	—	—	—	—	—
Other	1,370	39	—	20	854	2,283	76
Greater than 15 ppm to 500 ppm sulfur	30	—	—	—	—	30	1
Bonded	—	—	—	—	—	—	—
Other	30	—	—	—	—	30	1
Greater than 500 ppm to 2000 ppm sulfur	765	3	200	—	1	969	32
Bonded	—	—	—	—	—	—	—
Other	765	3	200	—	1	969	32
Greater than 2000 ppm	83	—	—	—	—	83	3
Bonded	—	—	—	—	—	—	—
Other	83	—	—	—	—	83	3
Residual Fuel Oil	2,289	28	2,615	—	1,197	6,129	204
Less than 0.31 percent sulfur	85	—	549	—	—	634	21
0.31 to 1.00 percent sulfur	634	—	—	—	161	795	27
Greater than 1.00 percent sulfur	1,570	28	2,066	—	1,036	4,700	157
Petrochemical Feedstocks	—	167	1,987	—	—	2,154	72
Naphtha for Petro. Feed. Use	—	86	1,314	—	—	1,400	47
Other Oils for Petro. Feed. Use	—	81	673	—	—	754	25
Special Naphthas	—	42	431	—	—	473	16
Lubricants	174	177	789	—	4	1,144	38
Waxes	79	12	25	—	34	150	5
Petroleum Coke (Marketable)	4	25	208	—	15	252	8
Asphalt and Road Oil	813	250	—	36	126	1,225	41
Miscellaneous Products	—	2	—	1	—	3	0
<b>Total</b>	<b>58,341</b>	<b>71,238</b>	<b>98,351</b>	<b>9,533</b>	<b>53,748</b>	<b>291,211</b>	<b>9,707</b>

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-September 2017**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1,2</sup></b>	<b>253,382</b>	<b>649,945</b>	<b>869,148</b>	<b>75,126</b>	<b>334,292</b>	<b>2,181,893</b>	<b>7,992</b>
<b>Hydrocarbon Gas Liquids</b>	<b>12,849</b>	<b>21,886</b>	<b>3,811</b>	<b>2,824</b>	<b>8,877</b>	<b>50,247</b>	<b>184</b>
Natural Gas Liquids	9,767	17,983	2,733	2,824	8,877	42,184	155
Ethane	—	—	—	—	—	—	—
Propane	8,833	14,681	14	2,543	7,489	33,560	123
Normal Butane	393	1,447	—	85	1,296	3,221	12
Isobutane	541	1,815	30	196	92	2,674	10
Natural Gasoline	—	40	2,689	—	—	2,729	10
Refinery Olefins	3,082	3,903	1,078	—	—	8,063	30
Ethylene	—	—	—	—	—	—	—
Propylene	3,075	3,275	—	—	—	6,350	23
Butylene	7	628	1,078	—	—	1,713	6
Isobutylene	—	—	—	—	—	—	—
<b>Other Liquids</b>	<b>177,401</b>	<b>2,872</b>	<b>136,335</b>	<b>370</b>	<b>45,796</b>	<b>362,774</b>	<b>1,329</b>
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	5,597	394	4,798	37	5,548	16,374	60
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	2,992	—	—	2,992	11
Methyl Tertiary Butyl Ether (MTBE)	—	—	1,786	—	—	1,786	7
Other Oxygenates <sup>3</sup>	—	—	1,206	—	—	1,206	4
Renewable Fuels (including Fuel Ethanol)	5,595	323	1,716	37	5,548	13,219	48
Fuel Ethanol	31	—	—	—	1,228	1,259	5
Biomass-Based Diesel Fuel	5,564	323	1,716	37	622	8,262	30
Other Renewable Diesel Fuel	—	—	—	—	3,698	3,698	14
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	2	71	90	—	—	163	1
Unfinished Oils <sup>1</sup>	18,252	—	118,276	—	30,920	167,448	613
Naphthas and Lighter	3,747	—	2,435	—	1,044	7,226	26
Kerosene and Lighter Gas Oils	—	—	795	—	—	795	3
Heavy Gas Oils	9,689	—	86,260	—	25,644	121,593	445
Residuum	4,816	—	28,786	—	4,232	37,834	139
Motor Gasoline Blend Comp. (MGBC)	153,552	2,478	13,261	333	9,328	178,952	656
Reformulated - RBOB	60,478	258	—	—	268	61,004	223
Conventional	93,074	2,220	13,261	333	9,060	117,948	432
CBOB	8,110	253	—	—	3,974	12,337	45
GTAB	26,387	—	983	—	161	27,531	101
Other	58,577	1,967	12,278	333	4,925	78,080	286
Aviation Gasoline Blend Comp.	—	—	—	—	—	—	—
<b>Finished Petroleum Products</b>	<b>83,825</b>	<b>6,704</b>	<b>45,337</b>	<b>904</b>	<b>44,712</b>	<b>181,482</b>	<b>665</b>
Finished Motor Gasoline	7,554	—	722	—	1,116	9,392	34
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	7,554	—	722	—	1,116	9,392	34
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	7,554	—	722	—	1,116	9,392	34
Finished Aviation Gasoline	43	21	—	8	16	88	0
Kerosene-Type Jet Fuel	15,459	5	—	106	25,607	41,177	151
Bonded Aircraft Fuel	2,256	—	—	—	8,290	10,546	39
Other	13,203	5	—	106	17,317	30,631	112
Kerosene	797	—	—	—	55	852	3
Distillate Fuel Oil	29,050	254	2,696	392	3,534	35,926	132
15 ppm sulfur and under	19,703	231	—	392	3,437	23,763	87
Bonded	—	—	—	—	—	—	—
Other	19,703	231	—	392	3,437	23,763	87
Greater than 15 ppm to 500 ppm sulfur	344	—	—	—	—	344	1
Bonded	—	—	—	—	—	—	—
Other	344	—	—	—	—	344	1
Greater than 500 ppm to 2000 ppm sulfur	8,920	12	1,832	—	97	10,861	40
Bonded	—	—	—	—	—	—	—
Other	8,920	12	1,832	—	97	10,861	40
Greater than 2000 ppm	83	11	864	—	—	958	4
Bonded	—	—	—	—	—	—	—
Other	83	11	864	—	—	958	4
Residual Fuel Oil	20,355	637	18,739	—	12,098	51,829	190
Less than 0.31 percent sulfur	1,209	—	2,334	—	—	3,543	13
0.31 to 1.00 percent sulfur	2,799	294	1,423	—	1,051	5,567	20
Greater than 1.00 percent sulfur	16,347	343	14,982	—	11,047	42,719	156
Petrochemical Feedstocks	9	1,312	10,855	—	305	12,481	46
Naphtha for Petro. Feed. Use	9	677	7,556	—	273	8,515	31
Other Oils for Petro. Feed. Use	—	635	3,299	—	32	3,966	15
Special Naphthas	—	393	3,382	—	45	3,820	14
Lubricants	2,060	1,752	6,965	—	496	11,273	41
Waxes	665	52	261	—	294	1,272	5
Petroleum Coke (Marketable)	213	206	1,697	—	254	2,370	9
Asphalt and Road Oil	7,620	2,069	—	388	891	10,968	40
Miscellaneous Products	—	3	20	10	1	34	0
<b>Total</b>	<b>527,457</b>	<b>681,407</b>	<b>1,054,631</b>	<b>79,224</b>	<b>433,677</b>	<b>2,776,396</b>	<b>10,170</b>

— = No Data Reported.

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, September 2017**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>77,112</b>	—	—	<b>4,315</b>	—	—	—	—	<b>2,368</b>	<b>2,368</b>
Algeria .....	1,675	—	—	2,686	—	—	—	—	—	—
Angola .....	4,806	—	—	120	—	—	—	—	203	203
Ecuador .....	6,683	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—
Iraq .....	14,977	—	—	—	—	—	—	—	—	—
Kuwait .....	3,824	—	—	—	—	—	—	—	—	—
Libya .....	1,106	—	—	272	—	—	—	—	—	—
Nigeria .....	6,710	—	—	369	—	—	—	—	1,680	1,680
Qatar .....	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	19,969	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	998	—	—	634	—	—	—	—	—	—
Venezuela .....	16,364	—	—	234	—	—	—	—	485	485
<b>Non-OPEC</b> .....	<b>141,150</b>	<b>4,141</b>	<b>816</b>	<b>16,751</b>	—	<b>1,242</b>	<b>1,242</b>	<b>5,362</b>	<b>15,107</b>	<b>20,469</b>
Argentina .....	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	1,707	—	—	—	—	72	72
Brazil .....	6,618	—	—	—	—	—	—	—	286	286
Brunei .....	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—
Canada .....	100,474	4,026	656	—	—	880	880	2,959	2,037	4,996
Chad .....	1,902	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—
Colombia .....	10,522	60	—	221	—	—	—	—	200	200
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—
Denmark .....	630	—	—	391	—	—	—	—	123	123
Egypt .....	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	1	—	15	15	—	323	323
France .....	—	—	—	81	—	—	—	—	589	589
Germany .....	—	—	—	257	—	—	—	—	8	8
Guatemala .....	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	114	—	—	—	—	2,382	2,382
Indonesia .....	912	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	270	—	—	—	35	724	759
Korea, South .....	—	—	—	—	—	50	50	—	39	39
Latvia .....	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	103	—	—	—	—	328	328
Malaysia .....	—	—	—	326	—	—	—	—	—	—
Mexico .....	11,213	—	31	—	—	—	—	—	—	—
Netherlands .....	—	—	—	1,007	—	8	8	447	900	1,347
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
Norway .....	1,421	—	—	872	—	—	—	288	288	576
Oman .....	1,037	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	1,329	1,329
Russia .....	2,583	—	—	7,678	—	—	—	173	1,948	2,121
Spain .....	—	—	—	682	—	—	—	—	1,219	1,219
Sweden .....	—	—	—	257	—	—	—	—	95	95
Syria .....	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	1,386	—	—	250	—	—	—	1,460	1,346	2,806
Vietnam .....	453	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—
Other .....	1,999	55	129	2,534	—	289	289	0	871	871
<b>Total</b> .....	<b>218,262</b>	<b>4,141</b>	<b>816</b>	<b>21,066</b>	—	<b>1,242</b>	<b>1,242</b>	<b>5,362</b>	<b>17,475</b>	<b>22,837</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>39,768</b>	—	—	<b>634</b>	—	—	—	—	—	—

See footnotes at end of table.

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
<b>OPEC</b> .....	—	—	—	—	—	—	—	—	101	—	101
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	101	—	101
<b>Non-OPEC</b> .....	114	194	254	205	634	—	2,283	30	868	83	3,264
Argentina .....	43	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	71	194	254	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	151	220	—	1,720	30	769	83	2,602
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	209	—	—	—	209
Colombia .....	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	249	—	—	—	249
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	54	—	—	43	—	—	—	43
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	44	—	44
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	20	—	20
Spain .....	—	—	—	—	—	—	—	—	12	—	12
Sweden .....	—	—	—	—	—	—	—	—	19	—	19
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	4	—	4
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	0	0	414	—	62	0	0	0	62
<b>Total</b> .....	114	194	254	205	634	—	2,283	30	969	83	3,365
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	1,094	—	85	302	825	1,212
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	77	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	85	302	—	387
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	303	—	—	—	—	—
United Arab Emirates .....	—	—	—	279	—	—	—	—	—
Venezuela .....	—	—	—	435	—	—	—	825	825
<b>Non-OPEC</b> .....	314	8	—	5,095	473	549	493	3,875	4,917
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	339	339
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	63	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	8	—	957	167	150	493	799	1,442
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	457	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	939	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	2,005	83	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	1,387	1,387
Netherlands .....	—	—	—	—	—	—	—	392	392
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	399	—	631	1,030
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	314	0	—	737	160	0	0	327	327
<b>Total</b> .....	314	8	—	6,189	473	634	795	4,700	6,129
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	659	—	—	—	—	—

See footnotes at end of table.

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b>	—	—	—	—	157	51	—	9,298	86,410	2,570	310	2,880
Algeria	—	—	—	—	—	—	—	2,686	4,361	56	90	145
Angola	—	—	—	—	—	—	—	323	5,129	160	11	171
Ecuador	—	—	—	—	—	—	—	—	6,683	223	—	223
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	77	15,054	499	3	502
Kuwait	—	—	—	—	—	—	—	—	3,824	127	—	127
Libya	—	—	—	—	—	—	—	659	1,765	37	22	59
Nigeria	—	—	—	—	—	—	—	2,049	8,759	224	68	292
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	303	20,272	666	10	676
United Arab Emirates	—	—	—	—	—	51	—	964	1,962	33	32	65
Venezuela	—	—	—	—	157	—	—	2,237	18,601	545	75	620
<b>Non-OPEC</b>	1,400	754	150	252	1,068	1,093	3	63,651	204,801	4,705	2,122	6,827
Argentina	—	—	—	200	—	1	—	244	244	—	8	8
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	339	339	—	11	11
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	8	—	1,787	1,787	—	60	60
Brazil	—	—	21	—	—	—	—	889	7,507	221	30	250
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	86	81	65	39	762	297	3	17,477	117,951	3,349	583	3,932
Chad	—	—	—	—	—	—	—	—	1,902	63	—	63
China	—	—	40	—	—	—	—	706	706	—	24	24
Colombia	203	—	—	—	—	—	—	684	11,206	351	23	374
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	514	1,144	21	17	38
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	5	—	344	344	—	11	11
France	—	16	—	—	—	5	—	691	691	—	23	23
Germany	—	—	—	1	—	19	—	285	285	—	10	10
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	3,684	3,684	—	123	123
Indonesia	—	—	—	—	—	49	—	49	961	30	2	32
Italy	—	—	—	—	—	9	—	1,039	1,039	—	35	35
Korea, South	—	—	—	—	—	650	—	2,924	2,924	—	97	97
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	431	431	—	14	14
Malaysia	—	—	11	—	—	—	—	337	337	—	11	11
Mexico	274	—	—	—	—	—	—	1,692	12,905	374	56	430
Netherlands	—	—	—	—	—	—	—	2,798	2,798	—	93	93
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	657	—	—	—	—	—	2,105	3,526	47	70	118
Oman	—	—	—	—	—	—	—	—	1,037	35	—	35
Portugal	—	—	—	—	—	—	—	1,329	1,329	—	44	44
Russia	58	—	—	—	—	9	—	10,916	13,499	86	364	450
Spain	—	—	—	—	223	—	—	2,136	2,136	—	71	71
Sweden	—	—	—	—	—	5	—	376	376	—	13	13
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	13	—	—	8	—	14	—	3,095	4,481	46	103	149
Vietnam	—	—	—	—	—	—	—	—	453	15	—	15
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	766	0	13	4	83	22	0	6,780	8,779	67	226	293
<b>Total</b>	1,400	754	150	252	1,225	1,144	3	72,949	291,211	7,275	2,432	9,707
<b>Persian Gulf<sup>3</sup></b>	—	—	—	—	—	51	—	1,344	41,112	1,326	45	1,370

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.



**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-September 2017**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b>	<b>880,512</b>	<b>199</b>	<b>—</b>	<b>41,378</b>	<b>—</b>	<b>56</b>	<b>56</b>	<b>—</b>	<b>10,691</b>	<b>10,691</b>
Algeria	22,987	—	—	32,124	—	—	—	—	—	—
Angola	35,955	—	—	860	—	—	—	—	813	813
Ecuador	56,746	—	—	—	—	—	—	—	—	—
Equatorial Guinea	3,284	—	—	—	—	—	—	—	—	—
Gabon	952	—	—	641	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	160,756	—	—	1,123	—	—	—	—	—	—
Kuwait	43,235	—	—	—	—	—	—	—	—	—
Libya	11,514	—	—	1,682	—	—	—	—	—	—
Nigeria	77,063	—	—	1,379	—	—	—	—	5,541	5,541
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	281,928	—	—	501	—	—	—	—	—	—
United Arab Emirates	4,868	—	—	2,457	—	—	—	—	—	—
Venezuela	181,224	199	—	611	—	56	56	—	4,337	4,337
<b>Non-OPEC</b>	<b>1,301,381</b>	<b>41,985</b>	<b>8,063</b>	<b>126,070</b>	<b>—</b>	<b>9,336</b>	<b>9,336</b>	<b>61,004</b>	<b>107,257</b>	<b>168,261</b>
Argentina	—	—	—	106	—	—	—	—	810	810
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	648	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	36	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	43	9,793	—	837	837	856	2,388	3,244
Brazil	56,956	—	—	948	—	—	—	—	664	664
Brunei	245	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	219	—	—	—	—	—	—
Canada	933,263	37,983	6,985	1,912	—	4,124	4,124	31,174	18,297	49,471
Chad	5,085	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	94,656	60	—	1,333	—	—	—	—	2,251	2,251
Congo (Brazzaville)	951	—	—	—	—	—	—	—	—	—
Denmark	630	—	—	626	—	9	9	36	343	379
Egypt	2,173	—	—	—	—	—	—	—	259	259
Estonia	—	—	—	—	—	—	—	—	1	1
Finland	—	—	—	126	—	15	15	82	2,327	2,409
France	—	—	—	1,597	—	88	88	4,674	2,677	7,351
Germany	—	—	—	774	—	116	116	158	154	312
Guatemala	2,717	—	—	—	—	—	—	—	—	—
India	—	—	—	3,530	—	8	8	529	17,224	17,753
Indonesia	2,535	—	—	—	—	—	—	—	—	—
Italy	—	—	—	711	—	327	327	269	2,692	2,961
Korea, South	—	—	—	—	—	225	225	—	2,698	2,698
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	103	—	—	—	—	1,138	1,138
Malaysia	—	—	—	326	—	—	—	—	175	175
Mexico	156,052	1,171	203	109	—	116	116	—	1,478	1,478
Netherlands	—	—	—	4,605	—	528	528	3,293	7,123	10,416
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	11,364	815	—	6,540	—	236	236	1,263	2,338	3,601
Oman	1,037	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	307	307	1,142	6,332	7,474
Russia	14,756	—	—	74,068	—	157	157	368	11,854	12,222
Spain	—	—	—	2,925	—	114	114	86	10,147	10,233
Sweden	—	511	—	1,359	—	271	271	128	1,097	1,225
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	2,479	330	—	1,410	—	2	2	—	750	750
United Kingdom	5,784	233	—	1,230	—	1,273	1,273	16,915	7,173	24,088
Vietnam	453	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	855	—	—	—	—	—	—	—	—	—
Other	8,742	882	832	11,684	—	583	583	31	4,867	4,898
<b>Total</b>	<b>2,181,893</b>	<b>42,184</b>	<b>8,063</b>	<b>167,448</b>	<b>—</b>	<b>9,392</b>	<b>9,392</b>	<b>61,004</b>	<b>117,948</b>	<b>178,952</b>
<b>Persian Gulf<sup>3</sup></b>	<b>490,787</b>	<b>—</b>	<b>—</b>	<b>4,081</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>

See footnotes at end of table.

**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
<b>OPEC</b> .....	—	—	—	—	—	—	323	—	420	—	743
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	323	—	—	—	323
Qatar .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	420	—	420
<b>Non-OPEC</b> .....	1,786	1,206	1,259	8,262	3,698	—	23,440	344	10,441	958	35,183
Argentina .....	215	—	—	6,920	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	119	—	119
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	234	—	—	—	—	—	—	—	422	260	682
Brazil .....	344	1,206	1,259	—	—	—	—	—	556	—	556
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	1,288	220	—	19,402	344	7,840	94	27,680
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	502	—	—	—	502
Colombia .....	—	—	—	—	—	—	183	—	70	—	253
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	205	—	205
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	115	115
Germany .....	161	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	2,503	—	100	114	2,717
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	54	—	—	476	—	—	—	476
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	75	—	—	—	75
Mexico .....	—	—	—	—	—	—	—	—	100	—	100
Netherlands .....	766	—	—	—	—	—	—	—	44	—	44
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	429	375	804
Spain .....	—	—	—	—	—	—	—	—	12	—	12
Sweden .....	—	—	—	—	—	—	—	—	19	—	19
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	351	—	351
United Kingdom .....	66	—	—	—	—	—	—	—	4	—	4
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	0	0	3,478	—	299	0	170	0	469
<b>Total</b> .....	1,786	1,206	1,259	8,262	3,698	—	23,763	344	10,861	958	35,926
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	4,152	37	1,007	612	4,030	5,649
Algeria .....	—	—	—	—	—	347	—	—	347
Angola .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	10	—	—	—	174	174
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	101	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	85	612	—	697
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	357	37	—	—	—	—
United Arab Emirates .....	—	—	—	279	—	—	—	—	—
Venezuela .....	—	—	—	3,405	—	575	—	3,856	4,431
<b>Non-OPEC</b> .....	852	88	—	37,025	3,783	2,536	4,955	38,689	46,180
Argentina .....	—	—	—	—	—	456	—	—	456
Aruba .....	—	—	—	151	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	43	—	—	—	690	690
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	112	112
Brazil .....	—	—	—	13	161	—	298	54	352
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	54	—	5,433	1,325	235	1,263	7,299	8,797
Chad .....	—	—	—	6	—	—	—	—	—
China .....	168	—	—	3,398	—	—	—	—	—
Colombia .....	—	—	—	—	—	240	717	1,274	2,231
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	46	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	41	—	—	272	272
Germany .....	—	—	—	—	36	—	—	1	1
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	1,726	—	—	81	171	252
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	444	444
Korea, South .....	55	—	—	21,350	814	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	334	502	709	16,164	17,375
Netherlands .....	—	34	—	—	14	—	—	1,482	1,482
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	14	—	—	—	—
Russia .....	—	—	—	32	—	907	482	2,937	4,326
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	274	274
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	321	3,754	4,075
United Kingdom .....	—	—	—	—	—	—	—	3	3
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	629	0	—	4,827	1,044	196	1,084	3,758	5,038
<b>Total</b> .....	852	88	—	41,177	3,820	3,543	5,567	42,719	51,829
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	737	37	—	—	—	—

See footnotes at end of table.

**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b>	<b>326</b>	<b>—</b>	<b>—</b>	<b>192</b>	<b>1,067</b>	<b>1,949</b>	<b>—</b>	<b>66,439</b>	<b>946,951</b>	<b>3,225</b>	<b>243</b>	<b>3,469</b>
Algeria	326	—	—	—	—	387	—	33,184	56,171	84	122	206
Angola	—	—	—	—	—	—	—	1,673	37,628	132	6	138
Ecuador	—	—	—	—	—	—	—	184	56,930	208	1	209
Equatorial Guinea	—	—	—	—	—	—	—	—	3,284	12	—	12
Gabon	—	—	—	—	—	—	—	641	1,593	3	2	6
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	1,224	161,980	589	4	593
Kuwait	—	—	—	—	—	—	—	—	43,235	158	—	158
Libya	—	—	—	—	—	—	—	2,379	13,893	42	9	51
Nigeria	—	—	—	—	—	—	—	7,243	84,306	282	27	309
Qatar	—	—	—	—	—	1,115	—	1,115	1,115	—	4	4
Saudi Arabia	—	—	—	—	—	22	—	917	282,845	1,033	3	1,036
United Arab Emirates	—	—	—	—	—	425	—	3,161	8,029	18	12	29
Venezuela	—	—	—	192	1,067	—	—	14,718	195,942	664	54	718
<b>Non-OPEC</b>	<b>8,189</b>	<b>3,966</b>	<b>1,272</b>	<b>2,178</b>	<b>9,901</b>	<b>9,324</b>	<b>34</b>	<b>528,064</b>	<b>1,829,445</b>	<b>4,767</b>	<b>1,934</b>	<b>6,701</b>
Argentina	—	287	—	971	—	17	—	9,782	9,782	—	36	36
Aruba	—	—	—	—	—	—	—	151	151	—	1	1
Australia	—	—	—	—	—	—	—	—	648	2	—	2
Bahamas	—	—	—	—	66	—	—	954	954	—	3	3
Bahrain	—	—	—	—	—	665	—	665	665	—	2	2
Belgium	—	—	—	—	—	481	—	15,426	15,426	—	57	57
Brazil	—	—	63	—	—	23	—	5,604	62,560	209	21	229
Brunei	—	—	—	—	—	—	—	—	245	1	—	1
Cameroon	—	—	—	—	—	—	—	219	219	—	1	1
Canada	677	635	524	457	8,233	2,800	14	158,683	1,091,946	3,419	581	4,000
Chad	—	—	—	—	—	—	—	6	5,091	19	0	19
China	—	—	418	—	—	—	—	4,486	4,486	—	16	16
Colombia	1,343	—	—	202	1	—	—	7,674	102,330	347	28	375
Congo (Brazzaville)	—	—	—	—	—	—	—	205	1,156	3	1	4
Denmark	—	—	—	—	—	—	—	1,014	1,644	2	4	6
Egypt	—	—	—	—	—	—	—	305	2,478	8	1	9
Estonia	—	—	—	171	—	—	—	172	172	—	1	1
Finland	—	—	—	—	—	21	—	2,571	2,571	—	9	9
France	44	197	—	—	—	124	—	9,829	9,829	—	36	36
Germany	1	—	16	1	1	305	—	1,732	1,732	—	6	6
Guatemala	—	—	—	—	—	—	—	—	2,717	10	—	10
India	—	—	—	—	—	—	—	25,986	25,986	—	95	95
Indonesia	—	—	—	—	—	583	—	583	3,118	9	2	11
Italy	—	—	8	—	—	181	—	4,642	4,642	—	17	17
Korea, South	36	—	2	—	—	3,715	—	29,425	29,425	—	108	108
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	1,241	1,241	—	5	5
Malaysia	—	—	117	—	209	44	—	946	946	—	3	3
Mexico	2,603	—	—	—	—	—	—	23,489	179,541	572	86	658
Netherlands	151	—	1	—	—	—	20	18,105	18,105	—	66	66
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	2,663	—	—	—	—	—	13,855	25,219	42	51	92
Oman	—	—	—	—	—	65	—	65	1,102	4	0	4
Portugal	—	—	—	—	—	—	—	7,795	7,795	—	29	29
Russia	105	—	—	—	—	67	—	91,783	106,539	54	336	390
Spain	—	—	8	—	1,215	—	—	14,507	14,507	—	53	53
Sweden	—	—	—	8	—	21	—	3,688	3,688	—	14	14
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	6,918	9,397	9	25	34
United Kingdom	445	—	—	187	—	141	—	27,670	33,454	21	101	123
Vietnam	—	—	—	—	—	—	—	—	453	2	—	2
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	855	3	—	3
Other	2,784	184	115	181	176	71	0	37,888	46,630	31	139	171
<b>Total</b>	<b>8,515</b>	<b>3,966</b>	<b>1,272</b>	<b>2,370</b>	<b>10,968</b>	<b>11,273</b>	<b>34</b>	<b>594,503</b>	<b>2,776,396</b>	<b>7,992</b>	<b>2,178</b>	<b>10,170</b>
<b>Persian Gulf<sup>3</sup></b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>2,227</b>	<b>—</b>	<b>7,082</b>	<b>497,869</b>	<b>1,798</b>	<b>26</b>	<b>1,824</b>

— = No Data Reported.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>13,805</b>	—	—	<b>871</b>	—	—	—	—	<b>2,368</b>	<b>2,368</b>
Algeria .....	1,675	—	—	382	—	—	—	—	—	—
Angola .....	2,751	—	—	120	—	—	—	—	203	203
Ecuador .....	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—
Libya .....	1,106	—	—	—	—	—	—	—	—	—
Nigeria .....	5,086	—	—	369	—	—	—	—	1,680	1,680
Qatar .....	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	3,187	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	485	485
<b>Non-OPEC</b> .....	<b>11,046</b>	<b>885</b>	<b>290</b>	<b>1,638</b>	—	<b>829</b>	<b>829</b>	<b>5,362</b>	<b>11,780</b>	<b>17,142</b>
Argentina .....	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	370	—	—	—	—	—	—
Brazil .....	1,012	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—
Canada .....	5,587	885	290	—	—	829	829	2,959	1,258	4,217
Chad .....	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—
Colombia .....	1,453	—	—	—	—	—	—	—	200	200
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—
Denmark .....	630	—	—	—	—	—	—	—	123	123
Egypt .....	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	323	323
France .....	—	—	—	—	—	—	—	—	589	589
Germany .....	—	—	—	—	—	—	—	—	8	8
Guatemala .....	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	1,840	1,840
Indonesia .....	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	35	724	759
Korea, South .....	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—
Mexico .....	449	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	447	584	1,031
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
Norway .....	1,421	—	—	—	—	—	—	288	288	576
Oman .....	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	1,050	1,050
Russia .....	—	—	—	528	—	—	—	173	1,948	2,121
Spain .....	—	—	—	410	—	—	—	—	1,219	1,219
Sweden .....	—	—	—	29	—	—	—	—	95	95
Syria .....	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	19	—	—	—	1,460	1,029	2,489
Vietnam .....	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—
Other .....	494	0	0	282	—	0	0	0	502	502
<b>Total</b> .....	<b>24,851</b>	<b>885</b>	<b>290</b>	<b>2,509</b>	—	<b>829</b>	<b>829</b>	<b>5,362</b>	<b>14,148</b>	<b>19,510</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>3,187</b>	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	-	42	-	-	1,370	30	765	83	2,248
Argentina .....	-	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-	-
Canada .....	-	-	-	42	-	-	1,121	30	765	83	1,999
Chad .....	-	-	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	249	-	-	-	249
Indonesia .....	-	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	-	-	-	-	-	-	-	-
Spain .....	-	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	-	0	-	-	0	0	0	0	0
<b>Total</b> .....	-	-	-	42	-	-	1,370	30	765	83	2,248
<b>Persian Gulf<sup>3</sup></b> .....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	1,017	—	85	302	508	895
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	85	302	—	387
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	303	—	—	—	—	—
United Arab Emirates .....	—	—	—	279	—	—	—	—	—
Venezuela .....	—	—	—	435	—	—	—	508	508
<b>Non-OPEC</b> .....	314	1	—	2,486	—	—	332	1,062	1,394
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	1	—	957	—	—	332	722	1,054
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	939	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	323	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	270	270
Netherlands .....	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	70	70
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	314	0	—	267	—	0	0	0	0
<b>Total</b> .....	314	1	—	3,503	—	85	634	1,570	2,289
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	582	—	—	—	—	—

See footnotes at end of table.

**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b>	—	—	—	—	157	30	—	5,338	19,143	460	178	638
Algeria	—	—	—	—	—	—	—	382	2,057	56	13	69
Angola	—	—	—	—	—	—	—	323	3,074	92	11	102
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	387	1,493	37	13	50
Nigeria	—	—	—	—	—	—	—	2,049	7,135	170	68	238
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	303	3,490	106	10	116
United Arab Emirates	—	—	—	—	—	30	—	309	309	—	10	10
Venezuela	—	—	—	—	157	—	—	1,585	1,585	—	53	53
<b>Non-OPEC</b>	—	—	79	4	656	144	—	28,152	39,198	368	938	1,307
Argentina	—	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	4	—	374	374	—	12	12
Brazil	—	—	21	—	—	—	—	21	1,033	34	1	34
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	53	—	350	116	—	10,793	16,380	186	360	546
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	5	—	—	—	—	5	5	—	0	0
Colombia	—	—	—	—	—	—	—	200	1,653	48	7	55
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	123	753	21	4	25
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	323	323	—	11	11
France	—	—	—	—	—	4	—	593	593	—	20	20
Germany	—	—	—	—	—	10	—	18	18	—	1	1
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	3,028	3,028	—	101	101
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	1	—	760	760	—	25	25
Korea, South	—	—	—	—	—	—	—	323	323	—	11	11
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	270	719	15	9	24
Netherlands	—	—	—	—	—	—	—	1,031	1,031	—	34	34
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	576	1,997	47	19	67
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	1,050	1,050	—	35	35
Russia	—	—	—	—	—	9	—	2,728	2,728	—	91	91
Spain	—	—	—	—	223	—	—	1,852	1,852	—	62	62
Sweden	—	—	—	—	—	—	—	124	124	—	4	4
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	2,508	2,508	—	84	84
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	4	83	0	—	1,452	1,946	17	47	65
<b>Total</b>	—	—	79	4	813	174	—	33,490	58,341	828	1,116	1,945
<b>Persian Gulf<sup>3</sup></b>	—	—	—	—	—	30	—	612	3,799	106	20	127

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	<b>67,769</b>	<b>1,983</b>	<b>366</b>	-	-	-	-	-	<b>317</b>	<b>317</b>
Argentina .....	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-
Canada .....	67,769	1,983	366	-	-	-	-	-	317	317
Chad .....	-	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	-	-	-	-	-	-	-
Spain .....	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-
Other .....	0	0	0	-	-	-	-	-	0	0
<b>Total</b> .....	<b>67,769</b>	<b>1,983</b>	<b>366</b>	-	-	-	-	-	<b>317</b>	<b>317</b>
<b>Persian Gulf<sup>3</sup></b> .....	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	-	17	-	-	39	-	3	-	42
Argentina .....	-	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-	-
Canada .....	-	-	-	17	-	-	39	-	3	-	42
Chad .....	-	-	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	-	-	-	-	-	-	-	-
Spain .....	-	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	-	0	-	-	0	-	0	-	0
<b>Total</b> .....	-	-	-	17	-	-	39	-	3	-	42
<b>Persian Gulf<sup>3</sup></b> .....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	—	2	—	—	42	—	—	28	28
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	2	—	—	42	—	—	28	28
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	—
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	—	0	—	—	0	—	—	0	0
<b>Total</b> .....	—	2	—	—	42	—	—	28	28
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b> .....	—	—	—	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Non-OPEC</b> .....	<b>86</b>	<b>81</b>	<b>12</b>	<b>25</b>	<b>250</b>	<b>177</b>	<b>2</b>	<b>3,469</b>	<b>71,238</b>	<b>2,259</b>	<b>116</b>	<b>2,375</b>
Argentina .....	—	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—	—
Canada .....	86	81	12	24	250	177	2	3,468	71,237	2,259	116	2,375
Chad .....	—	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	1	—	—	—	1	1	—	0	0
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	—	—	—	—
Spain .....	—	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b> .....	<b>86</b>	<b>81</b>	<b>12</b>	<b>25</b>	<b>250</b>	<b>177</b>	<b>2</b>	<b>3,469</b>	<b>71,238</b>	<b>2,259</b>	<b>116</b>	<b>2,375</b>
<b>Persian Gulf</b> <sup>3</sup> .....	—	—	—	—	—	—	—	—	—	—	—	—

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.



**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>41,227</b>	—	—	<b>2,430</b>	—	—	—	—	—	—
Algeria .....	—	—	—	1,924	—	—	—	—	—	—
Angola .....	908	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—
Iraq .....	12,714	—	—	—	—	—	—	—	—	—
Kuwait .....	1,269	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	272	—	—	—	—	—	—
Nigeria .....	1,624	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	8,348	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—
Venezuela .....	16,364	—	—	234	—	—	—	—	—	—
<b>Non-OPEC</b> .....	<b>33,712</b>	<b>60</b>	<b>160</b>	<b>11,746</b>	—	<b>312</b>	<b>312</b>	—	<b>2,140</b>	<b>2,140</b>
Argentina .....	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	1,294	—	—	—	—	72	72
Brazil .....	3,555	—	—	—	—	—	—	—	286	286
Brunei .....	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—
Canada .....	11,384	—	—	—	—	—	—	—	—	—
Chad .....	1,902	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—
Colombia .....	4,724	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	391	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	1	—	15	15	—	—	—
France .....	—	—	—	81	—	—	—	—	—	—
Germany .....	—	—	—	42	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	542	542
Indonesia .....	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	270	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	103	—	—	—	—	328	328
Malaysia .....	—	—	—	—	—	—	—	—	—	—
Mexico .....	9,256	—	31	—	—	—	—	—	—	—
Netherlands .....	—	—	—	948	—	8	8	—	316	316
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	872	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	279	279
Russia .....	—	—	—	5,868	—	—	—	—	—	—
Spain .....	—	—	—	272	—	—	—	—	—	—
Sweden .....	—	—	—	228	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	1,386	—	—	231	—	—	—	—	317	317
Vietnam .....	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—
Other .....	1,505	60	129	1,145	—	289	289	—	0	0
<b>Total</b> .....	<b>74,939</b>	<b>60</b>	<b>160</b>	<b>14,176</b>	—	<b>312</b>	<b>312</b>	—	<b>2,140</b>	<b>2,140</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>22,331</b>	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	—	—	—	—	—	—	—	—	101	—	101
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	101	—	101
<b>Non-OPEC</b> .....	114	194	—	—	—	—	—	—	99	—	99
Argentina .....	43	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	71	194	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	—	—	—	—	—	—	—	—
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	44	—	44
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	20	—	20
Spain .....	—	—	—	—	—	—	—	—	12	—	12
Sweden .....	—	—	—	—	—	—	—	—	19	—	19
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	4	—	4
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	—	—	—	—	—	—	0	—	0
<b>Total</b> .....	114	194	—	—	—	—	—	—	200	—	200
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	—	—	—	—	317	317
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	317	317
<b>Non-OPEC</b> .....	—	—	—	—	431	549	—	1,749	2,298
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	63	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	—	125	150	—	—	150
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	83	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	796	796
Netherlands .....	—	—	—	—	—	—	—	392	392
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	399	—	561	960
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	—	—	—	—	160	0	—	0	0
<b>Total</b> .....	—	—	—	—	431	549	—	2,066	2,615
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b> .....	—	—	—	—	—	21	—	2,869	44,096	1,374	96	1,470
Algeria .....	—	—	—	—	—	—	—	1,924	1,924	—	64	64
Angola .....	—	—	—	—	—	—	—	—	908	30	—	30
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	12,714	424	—	424
Kuwait .....	—	—	—	—	—	—	—	—	1,269	42	—	42
Libya .....	—	—	—	—	—	—	—	272	272	—	9	9
Nigeria .....	—	—	—	—	—	—	—	—	1,624	54	—	54
Qatar .....	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	8,348	278	—	278
United Arab Emirates .....	—	—	—	—	—	21	—	21	21	—	1	1
Venezuela .....	—	—	—	—	—	—	—	652	17,016	545	22	567
<b>Non-OPEC</b> .....	1,314	673	25	208	—	768	—	20,543	54,255	1,124	685	1,809
Argentina .....	—	—	—	200	—	1	—	244	244	—	8	8
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	4	—	1,370	1,370	—	46	46
Brazil .....	—	—	—	—	—	—	—	614	4,169	119	20	139
Brunei .....	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	—	—	—	—	275	11,659	379	9	389
Chad .....	—	—	—	—	—	—	—	—	1,902	63	—	63
China .....	—	—	1	—	—	—	—	1	1	—	0	0
Colombia .....	203	—	—	—	—	—	—	263	4,987	157	9	166
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	391	391	—	13	13
Egypt .....	—	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	5	—	21	21	—	1	1
France .....	—	16	—	—	—	1	—	98	98	—	3	3
Germany .....	—	—	—	—	—	9	—	51	51	—	2	2
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	542	542	—	18	18
Indonesia .....	—	—	—	—	—	49	—	49	49	—	2	2
Italy .....	—	—	—	—	—	8	—	279	279	—	9	9
Korea, South .....	—	—	—	—	—	650	—	733	733	—	24	24
Latvia .....	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	431	431	—	14	14
Malaysia .....	—	—	11	—	—	—	—	11	11	—	0	0
Mexico .....	274	—	—	—	—	—	—	1,101	10,357	309	37	345
Netherlands .....	—	—	—	—	—	—	—	1,708	1,708	—	57	57
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	657	—	—	—	—	—	1,529	1,529	—	51	51
Oman .....	—	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	279	279	—	9	9
Russia .....	58	—	—	—	—	—	—	6,906	6,906	—	230	230
Spain .....	—	—	—	—	—	—	—	284	284	—	9	9
Sweden .....	—	—	—	—	—	5	—	252	252	—	8	8
Syria .....	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	13	—	—	8	—	14	—	587	1,973	46	20	66
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	766	0	13	0	—	22	—	2,524	4,029	51	86	137
<b>Total</b> .....	1,314	673	25	208	—	789	—	23,412	98,351	2,498	780	3,278
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	21	—	21	22,352	744	1	745

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
	PAD District 4									
OPEC .....	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-
Non-OPEC .....	9,054	302	-	-	-	-	-	-	36	36
Canada .....	9,054	302	-	-	-	-	-	-	36	36
Other .....	0	0	-	-	-	-	-	-	0	0
Total .....	9,054	302	-	-	-	-	-	-	36	36
	PAD District 5									
OPEC .....	22,080	-	-	1,014	-	-	-	-	-	-
Algeria .....	-	-	-	380	-	-	-	-	-	-
Angola .....	1,147	-	-	-	-	-	-	-	-	-
Ecuador .....	6,683	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	2,263	-	-	-	-	-	-	-	-	-
Kuwait .....	2,555	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	8,434	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	998	-	-	634	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-
Non-OPEC .....	19,569	911	-	3,367	-	101	101	-	834	834
Argentina .....	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-
Brazil .....	2,051	-	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-
Canada .....	6,680	856	-	-	-	51	51	-	426	426
China .....	-	-	-	-	-	-	-	-	-	-
Colombia .....	4,345	-	-	221	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	215	-	-	-	-	-	-
Indonesia .....	912	-	-	-	-	-	-	-	-	-
Japan .....	-	-	-	-	-	-	-	-	60	60
Korea, South .....	-	-	-	-	-	50	50	-	39	39
Malaysia .....	-	-	-	326	-	-	-	-	-	-
Mexico .....	1,508	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	59	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-
Oman .....	1,037	-	-	-	-	-	-	-	-	-
Papua New Guinea .....	-	-	-	-	-	-	-	-	-	-
Peru .....	-	-	-	-	-	-	-	-	-	-
Singapore .....	-	-	-	391	-	-	-	-	173	173
Sweden .....	-	-	-	-	-	-	-	-	-	-
Taiwan .....	-	-	-	-	-	-	-	-	136	136
United Kingdom .....	-	-	-	-	-	-	-	-	-	-
Vietnam .....	453	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-
Other .....	2,583	55	-	2,155	-	0	0	-	0	0
Total .....	41,649	911	-	4,381	-	101	101	-	834	834
Persian Gulf <sup>3</sup> .....	14,250	-	-	634	-	-	-	-	-	-

See footnotes at end of table.

**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygen-ates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
	PAD District 4										
OPEC .....	—	—	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC .....	—	—	—	6	—	—	20	—	—	—	20
Canada .....	—	—	—	6	—	—	20	—	—	—	20
Other .....	—	—	—	0	—	—	0	—	—	—	0
Total .....	—	—	—	6	—	—	20	—	—	—	20
	PAD District 5										
OPEC .....	—	—	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC .....	—	—	254	140	634	—	854	—	1	—	855
Argentina .....	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	254	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	86	220	—	540	—	1	—	541
China .....	—	—	—	—	—	—	209	—	—	—	209
Colombia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—
Japan .....	—	—	—	—	—	—	62	—	—	—	62
Korea, South .....	—	—	—	54	—	—	43	—	—	—	43
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Papua New Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Peru .....	—	—	—	—	—	—	—	—	—	—	—
Singapore .....	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—	—	—
Taiwan .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Other .....	—	—	0	0	414	—	0	—	0	—	0
Total .....	—	—	254	140	634	—	854	—	1	—	855
Persian Gulf <sup>3</sup> .....	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels) — Continued

Country of Origin			Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	PAD District 4								
OPEC .....	—	—	—	77	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	77	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—
Non-OPEC .....	—	1	—	—	—	—	—	—	—
Canada .....	—	1	—	—	—	—	—	—	—
Other .....	—	0	—	0	—	—	—	—	—
Total .....	—	1	—	77	—	—	—	—	—
	PAD District 5								
OPEC .....	—	—	—	—	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—
Non-OPEC .....	—	4	—	2,609	—	—	161	1,036	1,197
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Canada .....	—	4	—	—	—	—	161	49	210
China .....	—	—	—	457	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Japan .....	—	—	—	470	—	—	—	—	—
Korea, South .....	—	—	—	1,682	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	321	321
Netherlands .....	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Papua New Guinea .....	—	—	—	—	—	—	—	—	—
Peru .....	—	—	—	—	—	—	—	237	237
Singapore .....	—	—	—	—	—	—	—	90	90
Sweden .....	—	—	—	—	—	—	—	—	—
Taiwan .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Other .....	—	0	—	0	—	—	0	339	339
Total .....	—	4	—	2,609	—	—	161	1,036	1,197
Persian Gulf <sup>3</sup> .....	—	—	—	—	—	—	—	—	—

See footnotes at end of table.



**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks								Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
	PAD District 4											
OPEC .....	—	—	—	—	—	—	—	77	77	—	3	3
Algeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	77	77	—	3	3
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC .....	—	—	—	—	36	—	1	402	9,456	302	13	315
Canada .....	—	—	—	—	36	—	1	402	9,456	302	13	315
Other .....	—	—	—	—	0	—	0	0	0	0	0	0
Total .....	—	—	—	—	36	—	1	479	9,533	302	16	318
	PAD District 5											
OPEC .....	—	—	—	—	—	—	—	1,014	23,094	736	34	770
Algeria .....	—	—	—	—	—	—	—	380	380	—	13	13
Angola .....	—	—	—	—	—	—	—	—	1,147	38	—	38
Ecuador .....	—	—	—	—	—	—	—	—	6,683	223	—	223
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	2,263	75	—	75
Kuwait .....	—	—	—	—	—	—	—	—	2,555	85	—	85
Libya .....	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	8,434	281	—	281
United Arab Emirates .....	—	—	—	—	—	—	—	634	1,632	33	21	54
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC .....	—	—	34	15	126	4	—	11,085	30,654	652	370	1,022
Argentina .....	—	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	254	2,305	68	8	77
Brunei .....	—	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	15	126	4	—	2,539	9,219	223	85	307
China .....	—	—	34	—	—	—	—	700	700	—	23	23
Colombia .....	—	—	—	—	—	—	—	221	4,566	145	7	152
Finland .....	—	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	215	215	—	7	7
Indonesia .....	—	—	—	—	—	—	—	—	912	30	—	30
Japan .....	—	—	—	—	—	—	—	592	592	—	20	20
Korea, South .....	—	—	—	—	—	—	—	1,868	1,868	—	62	62
Malaysia .....	—	—	—	—	—	—	—	326	326	—	11	11
Mexico .....	—	—	—	—	—	—	—	321	1,829	50	11	61
Netherlands .....	—	—	—	—	—	—	—	59	59	—	2	2
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	1,037	35	—	35
Papua New Guinea .....	—	—	—	—	—	—	—	—	—	—	—	—
Peru .....	—	—	—	—	—	—	—	237	237	—	8	8
Singapore .....	—	—	—	—	—	—	—	1,068	1,068	—	36	36
Sweden .....	—	—	—	—	—	—	—	—	—	—	—	—
Taiwan .....	—	—	—	—	—	—	—	136	136	—	5	5
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	453	15	—	15
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	—	—	0	0	0	0	—	2,549	5,132	86	85	171
Total .....	—	—	34	15	126	4	—	12,099	53,748	1,388	403	1,792
Persian Gulf <sup>3</sup> .....	—	—	—	—	—	—	—	634	14,884	475	21	496

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b>	<b>157,388</b>	—	—	<b>5,640</b>	—	<b>56</b>	<b>56</b>	—	<b>10,402</b>	<b>10,402</b>
Algeria	15,854	—	—	4,871	—	—	—	—	—	—
Angola	23,107	—	—	120	—	—	—	—	813	813
Ecuador	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	17,697	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	7,107	—	—	—	—	—	—	—	—	—
Nigeria	68,300	—	—	649	—	—	—	—	5,541	5,541
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	20,285	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	5,038	—	—	—	—	56	56	—	4,048	4,048
<b>Non-OPEC</b>	<b>95,994</b>	<b>9,767</b>	<b>3,082</b>	<b>12,612</b>	—	<b>7,498</b>	<b>7,498</b>	<b>60,478</b>	<b>82,672</b>	<b>143,150</b>
Argentina	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	1,084	—	837	837	856	1,484	2,340
Brazil	10,156	—	—	—	—	—	—	—	312	312
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	53,607	8,837	3,082	261	—	3,510	3,510	30,916	11,367	42,283
Chad	1,903	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	10,893	—	—	104	—	—	—	—	1,805	1,805
Congo (Brazzaville)	951	—	—	—	—	—	—	—	—	—
Denmark	630	—	—	4	—	9	9	36	302	338
Egypt	1,487	—	—	—	—	—	—	—	259	259
Estonia	—	—	—	—	—	—	—	—	1	1
Finland	—	—	—	—	—	—	—	82	2,327	2,409
France	—	—	—	100	—	—	—	4,674	2,240	6,914
Germany	—	—	—	75	—	116	116	158	130	288
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	8	8	529	15,098	15,627
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	327	327	269	2,066	2,335
Korea, South	—	—	—	—	—	—	—	—	1,461	1,461
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	495	495
Malaysia	—	—	—	—	—	—	—	—	175	175
Mexico	1,839	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	744	—	477	477	3,293	5,130	8,423
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	10,393	419	—	153	—	236	236	1,263	2,286	3,549
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	307	307	1,142	6,053	7,195
Russia	2,110	—	—	5,227	—	36	36	368	11,444	11,812
Spain	—	—	—	1,928	—	114	114	86	8,808	8,894
Sweden	—	511	—	699	—	271	271	128	1,097	1,225
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	2	2	—	480	480
United Kingdom	645	—	—	361	—	1,248	1,248	16,647	5,536	22,183
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	1,380	0	0	1,872	—	0	0	31	2,316	2,347
<b>Total</b>	<b>253,382</b>	<b>9,767</b>	<b>3,082</b>	<b>18,252</b>	—	<b>7,554</b>	<b>7,554</b>	<b>60,478</b>	<b>93,074</b>	<b>153,552</b>
<b>Persian Gulf<sup>3</sup></b>	<b>37,982</b>	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	—	—	—	—	—	—	323	—	319	—	642
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	323	—	—	—	323
Qatar .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	319	—	319
<b>Non-OPEC</b> .....	—	—	31	5,564	—	—	19,380	344	8,601	83	28,408
Argentina .....	—	—	—	5,204	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	119	—	119
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	31	—	—	—	—	—	1	—	1
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	360	—	—	16,615	344	7,731	83	24,773
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	4	—	—	—	4
Colombia .....	—	—	—	—	—	—	183	—	70	—	253
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	205	—	205
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	2,503	—	—	—	2,503
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	75	—	—	—	75
Mexico .....	—	—	—	—	—	—	—	—	100	—	100
Netherlands .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	24	—	24
Spain .....	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	351	—	351
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	—	—	0	0	—	—	0	0	0	0	0
<b>Total</b> .....	—	—	31	5,564	—	—	19,703	344	8,920	83	29,050
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	3,997	—	432	612	2,540	3,584
Algeria .....	—	—	—	—	—	347	—	—	347
Angola .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	10	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	3	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	85	612	—	697
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	306	—	—	—	—	—
United Arab Emirates .....	—	—	—	279	—	—	—	—	—
Venezuela .....	—	—	—	3,399	—	—	—	2,540	2,540
<b>Non-OPEC</b> .....	<b>797</b>	<b>43</b>	—	<b>11,462</b>	—	<b>777</b>	<b>2,187</b>	<b>13,807</b>	<b>16,771</b>
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	151	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	43	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	13	—	—	—	54	54
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	9	—	5,424	—	85	408	6,008	6,501
Chad .....	—	—	—	6	—	—	—	—	—
China .....	168	—	—	262	—	—	—	—	—
Colombia .....	—	—	—	—	—	240	406	1,274	1,920
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	46	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	1,726	—	—	—	1	1
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	3,524	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	137	1,234	1,371
Netherlands .....	—	34	—	—	—	—	—	118	118
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	256	460	1,403	2,119
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	270	270
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	321	3,066	3,387
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	629	0	—	267	—	196	455	379	1,030
<b>Total</b> .....	<b>797</b>	<b>43</b>	—	<b>15,459</b>	—	<b>1,209</b>	<b>2,799</b>	<b>16,347</b>	<b>20,355</b>
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	<b>588</b>	—	—	—	—	—

See footnotes at end of table.

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b>	—	—	—	192	1,067	483	—	26,063	183,451	577	95	672
Algeria	—	—	—	—	—	387	—	5,605	21,459	58	21	79
Angola	—	—	—	—	—	—	—	933	24,040	85	3	88
Ecuador	—	—	—	—	—	—	—	10	10	—	0	0
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	3	17,700	65	0	65
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	697	7,804	26	3	29
Nigeria	—	—	—	—	—	—	—	6,513	74,813	250	24	274
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	306	20,591	74	1	75
United Arab Emirates	—	—	—	—	—	96	—	375	375	—	1	1
Venezuela	—	—	—	192	1,067	—	—	11,621	16,659	18	43	61
<b>Non-OPEC</b>	9	—	665	21	6,553	1,577	—	248,012	344,006	352	908	1,260
Argentina	—	—	—	—	—	8	—	5,212	5,212	—	19	19
Aruba	—	—	—	—	—	—	—	151	151	—	1	1
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	66	—	—	228	228	—	1	1
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	74	—	4,335	4,335	—	16	16
Brazil	—	—	63	—	—	—	—	474	10,630	37	2	39
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	471	6	5,166	1,000	—	101,683	155,290	196	372	569
Chad	—	—	—	—	—	—	—	6	1,909	7	0	7
China	—	—	89	—	—	—	—	523	523	—	2	2
Colombia	—	—	—	—	—	—	—	4,082	14,975	40	15	55
Congo (Brazzaville)	—	—	—	—	—	—	—	205	1,156	3	1	4
Denmark	—	—	—	—	—	—	—	351	981	2	1	4
Egypt	—	—	—	—	—	—	—	305	1,792	5	1	7
Estonia	—	—	—	—	—	—	—	1	1	—	0	0
Finland	—	—	—	—	—	—	—	2,409	2,409	—	9	9
France	—	—	—	—	—	51	—	7,065	7,065	—	26	26
Germany	—	—	16	—	1	86	—	582	582	—	2	2
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	19,865	19,865	—	73	73
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	14	—	2,676	2,676	—	10	10
Korea, South	—	—	2	—	—	293	—	5,280	5,280	—	19	19
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	495	495	—	2	2
Malaysia	—	—	6	—	—	—	—	256	256	—	1	1
Mexico	—	—	—	—	—	—	—	1,471	3,310	7	5	12
Netherlands	—	—	1	—	—	—	—	9,797	9,797	—	36	36
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	4,357	14,750	38	16	54
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	7,502	7,502	—	27	27
Russia	—	—	—	—	—	30	—	19,250	21,360	8	71	78
Spain	—	—	8	—	1,168	—	—	12,112	12,112	—	44	44
Sweden	—	—	—	—	—	15	—	2,991	2,991	—	11	11
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	4,220	4,220	—	15	15
United Kingdom	9	—	—	—	—	3	—	23,804	24,449	2	87	90
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	—	9	15	152	3	—	6,324	7,704	7	23	27
<b>Total</b>	<b>9</b>	<b>—</b>	<b>665</b>	<b>213</b>	<b>7,620</b>	<b>2,060</b>	<b>—</b>	<b>274,075</b>	<b>527,457</b>	<b>928</b>	<b>1,004</b>	<b>1,932</b>
<b>Persian Gulf<sup>3</sup></b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>96</b>	<b>—</b>	<b>684</b>	<b>38,666</b>	<b>139</b>	<b>3</b>	<b>142</b>

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>9,403</b>	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	9,352	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-
Venezuela .....	51	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	<b>640,542</b>	<b>17,983</b>	<b>3,903</b>	-	-	-	-	<b>258</b>	<b>2,220</b>	<b>2,478</b>
Argentina .....	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-
Canada .....	639,544	17,983	3,903	-	-	-	-	258	2,220	2,478
Chad .....	-	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-
Mexico .....	998	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	-	-	-	-	-	-	-
Spain .....	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-
Other .....	0	0	0	-	-	-	-	0	0	0
<b>Total</b> .....	<b>649,945</b>	<b>17,983</b>	<b>3,903</b>	-	-	-	-	<b>258</b>	<b>2,220</b>	<b>2,478</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>9,352</b>	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
<b>Non-OPEC</b> .....	-	-	-	323	-	-	231	-	12	11	254
Argentina .....	-	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-	-	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-	-
Canada .....	-	-	-	323	-	-	231	-	12	11	254
Chad .....	-	-	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-	-
Colombia .....	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	-	-	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-	-
Guatemala .....	-	-	-	-	-	-	-	-	-	-	-
India .....	-	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-	-	-	-
Korea, South .....	-	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	-	-	-
Russia .....	-	-	-	-	-	-	-	-	-	-	-
Spain .....	-	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	-	0	-	-	0	-	0	0	0
<b>Total</b> .....	-	-	-	323	-	-	231	-	12	11	254
<b>Persian Gulf<sup>3</sup></b> .....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	5	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	5	—	—	—	—	—
<b>Non-OPEC</b> .....	—	21	—	—	393	—	294	343	637
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	21	—	—	393	—	294	343	637
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—
Netherlands .....	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	—
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	—	—
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	—	0	—	0	0	—	0	0	0
<b>Total</b> .....	—	21	—	5	393	—	294	343	637
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b> .....	—	—	—	—	—	2	—	7	9,410	34	0	34
Algeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	2	—	2	2	—	0	0
Saudi Arabia .....	—	—	—	—	—	—	—	—	9,352	34	—	34
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	5	56	0	0	0
<b>Non-OPEC</b> .....	677	635	52	206	2,069	1,750	3	31,455	671,997	2,346	115	2,462
Argentina .....	—	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—	—
Canada .....	677	635	52	197	2,069	1,747	3	31,443	670,987	2,343	115	2,458
Chad .....	—	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	1	—	1	—	2	2	—	0	0
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	1	—	1	1	—	0	0
Latvia .....	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	998	4	—	4
Netherlands .....	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	—	—	—	—
Spain .....	—	—	—	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	8	—	1	—	9	9	—	0	0
Syria .....	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	0	0	0	0	0	0	0	-1	0	0
<b>Total</b> .....	677	635	52	206	2,069	1,752	3	31,462	681,407	2,381	115	2,496
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	2	—	2	9,354	34	0	34

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>524,159</b>	<b>199</b>	<b>-</b>	<b>27,881</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>289</b>	<b>289</b>
Algeria .....	7,133	-	-	21,947	-	-	-	-	-	-
Angola .....	4,536	-	-	740	-	-	-	-	-	-
Ecuador .....	3,674	-	-	-	-	-	-	-	-	-
Equatorial Guinea .....	2,281	-	-	-	-	-	-	-	-	-
Gabon .....	952	-	-	641	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	126,069	-	-	1,123	-	-	-	-	-	-
Kuwait .....	25,544	-	-	-	-	-	-	-	-	-
Libya .....	1,239	-	-	997	-	-	-	-	-	-
Nigeria .....	6,626	-	-	730	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	169,970	-	-	501	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	591	-	-	-	-	-	-
Venezuela .....	176,135	199	-	611	-	-	-	-	289	289
<b>Non-OPEC</b> .....	<b>344,989</b>	<b>2,534</b>	<b>1,078</b>	<b>90,395</b>	<b>-</b>	<b>722</b>	<b>722</b>	<b>-</b>	<b>12,972</b>	<b>12,972</b>
Argentina .....	-	-	-	106	-	-	-	-	810	810
Aruba .....	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	36	-	-	-	-	-	-
Bahrain .....	-	-	-	-	-	-	-	-	-	-
Belgium .....	-	-	43	8,485	-	-	-	-	904	904
Brazil .....	31,184	-	-	897	-	-	-	-	352	352
Brunei .....	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	219	-	-	-	-	-	-
Canada .....	103,937	14	-	220	-	-	-	-	71	71
Chad .....	3,182	-	-	-	-	-	-	-	-	-
China .....	-	-	-	-	-	-	-	-	-	-
Colombia .....	47,514	-	-	415	-	-	-	-	228	228
Congo (Brazzaville) .....	-	-	-	-	-	-	-	-	-	-
Denmark .....	-	-	-	622	-	-	-	-	-	-
Egypt .....	-	-	-	-	-	-	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	126	-	15	15	-	-	-
France .....	-	-	-	1,497	-	-	-	-	437	437
Germany .....	-	-	-	484	-	-	-	-	-	-
Guatemala .....	2,717	-	-	-	-	-	-	-	-	-
India .....	-	-	-	2,948	-	-	-	-	2,126	2,126
Indonesia .....	-	-	-	-	-	-	-	-	-	-
Italy .....	-	-	-	711	-	-	-	-	626	626
Korea, South .....	-	-	-	-	-	-	-	-	-	-
Latvia .....	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	103	-	-	-	-	643	643
Malaysia .....	-	-	-	-	-	-	-	-	-	-
Mexico .....	145,138	1,171	203	109	-	116	116	-	1,478	1,478
Netherlands .....	-	-	-	3,802	-	8	8	-	1,350	1,350
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-
Norway .....	971	396	-	6,387	-	-	-	-	22	22
Oman .....	-	-	-	-	-	-	-	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	279	279
Russia .....	-	-	-	54,376	-	-	-	-	306	306
Spain .....	-	-	-	997	-	-	-	-	1,339	1,339
Sweden .....	-	-	-	548	-	-	-	-	-	-
Syria .....	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	1,112	-	-	711	-	-	-	-	270	270
United Kingdom .....	5,139	233	-	869	-	-	-	-	680	680
Vietnam .....	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-
Yemen .....	-	-	-	-	-	-	-	-	-	-
Other .....	3,143	720	832	5,086	-	583	583	-	1,051	1,051
<b>Total</b> .....	<b>869,148</b>	<b>2,733</b>	<b>1,078</b>	<b>118,276</b>	<b>-</b>	<b>722</b>	<b>722</b>	<b>-</b>	<b>13,261</b>	<b>13,261</b>
<b>Persian Gulf<sup>3</sup></b> .....	<b>321,583</b>	<b>-</b>	<b>-</b>	<b>2,215</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

See footnotes at end of table.

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b> .....	—	—	—	—	—	—	—	—	101	—	101
Algeria .....	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	101	—	101
<b>Non-OPEC</b> .....	1,786	1,206	—	1,716	—	—	—	—	1,731	864	2,595
Argentina .....	215	—	—	1,716	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	234	—	—	—	—	—	—	—	422	260	682
Brazil .....	344	1,206	—	—	—	—	—	—	555	—	555
Brunei .....	—	—	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	—	—	—	—	—	—	—	—
Chad .....	—	—	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—	—	115	115
Germany .....	161	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—	100	114	214
Indonesia .....	—	—	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	766	—	—	—	—	—	—	—	44	—	44
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Russia .....	—	—	—	—	—	—	—	—	405	375	780
Spain .....	—	—	—	—	—	—	—	—	12	—	12
Sweden .....	—	—	—	—	—	—	—	—	19	—	19
Syria .....	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—	—	—
United Kingdom .....	66	—	—	—	—	—	—	—	4	—	4
Vietnam .....	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	0	—	0	—	—	—	—	170	0	170
<b>Total</b> .....	1,786	1,206	—	1,716	—	—	—	—	1,832	864	2,696
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
<b>OPEC</b> .....	—	—	—	—	37	575	—	1,316	1,891
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Equatorial Guinea .....	—	—	—	—	—	—	—	—	—
Gabon .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	37	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	575	—	1,316	1,891
<b>Non-OPEC</b> .....	—	—	—	—	3,345	1,759	1,423	13,666	16,848
Argentina .....	—	—	—	—	—	456	—	—	456
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	—	—	—	—	—	—
Bahrain .....	—	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	112	112
Brazil .....	—	—	—	—	161	—	298	—	298
Brunei .....	—	—	—	—	—	—	—	—	—
Cameroon .....	—	—	—	—	—	—	—	—	—
Canada .....	—	—	—	—	932	150	—	—	150
Chad .....	—	—	—	—	—	—	—	—	—
China .....	—	—	—	—	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	311	—	311
Congo (Brazzaville) .....	—	—	—	—	—	—	—	—	—
Denmark .....	—	—	—	—	—	—	—	—	—
Egypt .....	—	—	—	—	—	—	—	—	—
Estonia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
France .....	—	—	—	—	41	—	—	272	272
Germany .....	—	—	—	—	36	—	—	1	1
Guatemala .....	—	—	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	81	170	251
Indonesia .....	—	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—	—
Korea, South .....	—	—	—	—	769	—	—	—	—
Latvia .....	—	—	—	—	—	—	—	—	—
Lithuania .....	—	—	—	—	—	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	334	502	302	11,168	11,972
Netherlands .....	—	—	—	—	14	—	—	402	402
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	14	—	—	—	—
Russia .....	—	—	—	—	—	651	22	1,534	2,207
Spain .....	—	—	—	—	—	—	—	—	—
Sweden .....	—	—	—	—	—	—	—	4	4
Syria .....	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	3	3
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Yemen .....	—	—	—	—	—	—	—	—	—
Other .....	—	—	—	—	1,044	0	409	0	409
<b>Total</b> .....	—	—	—	—	3,382	2,334	1,423	14,982	18,739
<b>Persian Gulf<sup>3</sup></b> .....	—	—	—	—	37	—	—	—	—

See footnotes at end of table.

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
<b>OPEC</b>	<b>326</b>	—	—	—	—	<b>1,464</b>	—	<b>32,188</b>	<b>556,347</b>	<b>1,920</b>	<b>118</b>	<b>2,038</b>
Algeria	326	—	—	—	—	—	—	22,273	29,406	26	82	108
Angola	—	—	—	—	—	—	—	740	5,276	17	3	19
Ecuador	—	—	—	—	—	—	—	—	3,674	13	—	13
Equatorial Guinea	—	—	—	—	—	—	—	—	2,281	8	—	8
Gabon	—	—	—	—	—	—	—	641	1,593	3	2	6
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	1,123	127,192	462	4	466
Kuwait	—	—	—	—	—	—	—	—	25,544	94	—	94
Libya	—	—	—	—	—	—	—	997	2,236	5	4	8
Nigeria	—	—	—	—	—	—	—	730	7,356	24	3	27
Qatar	—	—	—	—	—	1,113	—	1,113	1,113	—	4	4
Saudi Arabia	—	—	—	—	—	22	—	560	170,530	623	2	625
United Arab Emirates	—	—	—	—	—	329	—	920	920	—	3	3
Venezuela	—	—	—	—	—	—	—	3,091	179,226	645	11	657
<b>Non-OPEC</b>	<b>7,230</b>	<b>3,299</b>	<b>261</b>	<b>1,697</b>	—	<b>5,501</b>	<b>20</b>	<b>153,295</b>	<b>498,284</b>	<b>1,264</b>	<b>562</b>	<b>1,825</b>
Argentina	—	287	—	971	—	9	—	4,570	4,570	—	17	17
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	36	36	—	0	0
Bahrain	—	—	—	—	—	665	—	665	665	—	2	2
Belgium	—	—	—	—	—	39	—	10,499	10,499	—	38	38
Brazil	—	—	—	—	—	23	—	3,851	35,035	114	14	128
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	219	219	—	1	1
Canada	—	—	—	—	—	—	—	1,387	105,324	381	5	386
Chad	—	—	—	—	—	—	—	—	3,182	12	—	12
China	—	—	100	—	—	—	—	100	100	—	0	0
Colombia	1,343	—	—	202	—	—	—	2,559	50,073	174	9	183
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	622	622	—	2	2
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	171	—	—	—	171	171	—	1	1
Finland	—	—	—	—	—	21	—	162	162	—	1	1
France	44	165	—	—	—	73	—	2,644	2,644	—	10	10
Germany	1	—	—	—	—	218	—	909	909	—	3	3
Guatemala	—	—	—	—	—	—	—	—	2,717	10	—	10
India	—	—	—	—	—	—	—	5,539	5,539	—	20	20
Indonesia	—	—	—	—	—	583	—	583	583	—	2	2
Italy	—	—	8	—	—	167	—	1,522	1,522	—	6	6
Korea, South	—	—	—	—	—	3,348	—	4,117	4,117	—	15	15
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	746	746	—	3	3
Malaysia	—	—	108	—	—	44	—	152	152	—	1	1
Mexico	2,603	—	—	—	—	—	—	17,986	163,124	532	66	598
Netherlands	151	—	—	—	—	—	20	6,601	6,601	—	24	24
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	2,663	—	—	—	—	—	9,468	10,439	4	35	38
Oman	—	—	—	—	—	65	—	65	65	—	0	0
Portugal	—	—	—	—	—	—	—	293	293	—	1	1
Russia	105	—	—	—	—	37	—	57,811	57,811	—	212	212
Spain	—	—	—	—	—	—	—	2,348	2,348	—	9	9
Sweden	—	—	—	—	—	5	—	576	576	—	2	2
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	981	2,093	4	4	8
United Kingdom	436	—	—	187	—	138	—	2,616	7,755	19	10	28
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	2,547	184	45	166	—	66	0	12,856	15,999	11	47	58
<b>Total</b>	<b>7,556</b>	<b>3,299</b>	<b>261</b>	<b>1,697</b>	—	<b>6,965</b>	<b>20</b>	<b>185,483</b>	<b>1,054,631</b>	<b>3,184</b>	<b>679</b>	<b>3,863</b>
<b>Persian Gulf<sup>3</sup></b>	—	—	—	—	—	<b>2,129</b>	—	<b>4,381</b>	<b>325,964</b>	<b>1,178</b>	<b>16</b>	<b>1,194</b>

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels)

Country of Origin	Crude Oil <sup>1,2</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils <sup>1</sup>	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven- tional	Total	Reform-ulated	Conven- tional	Total
	PAD District 4									
OPEC .....	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-
Non-OPEC .....	75,126	2,824	-	-	-	-	-	-	333	333
Canada .....	75,126	2,824	-	-	-	-	-	-	333	333
Other .....	0	0	-	-	-	-	-	-	0	0
Total .....	75,126	2,824	-	-	-	-	-	-	333	333
	PAD District 5									
OPEC .....	189,562	-	-	7,857	-	-	-	-	-	-
Algeria .....	-	-	-	5,306	-	-	-	-	-	-
Angola .....	8,312	-	-	-	-	-	-	-	-	-
Ecuador .....	53,072	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	16,990	-	-	-	-	-	-	-	-	-
Kuwait .....	17,691	-	-	-	-	-	-	-	-	-
Libya .....	3,168	-	-	685	-	-	-	-	-	-
Nigeria .....	2,137	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	82,321	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	4,868	-	-	1,866	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-
Non-OPEC .....	144,730	8,877	-	23,063	-	1,116	1,116	268	9,060	9,328
Argentina .....	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-
Australia .....	648	-	-	-	-	-	-	-	-	-
Brazil .....	15,616	-	-	51	-	-	-	-	-	-
Brunei .....	245	-	-	-	-	-	-	-	-	-
Canada .....	61,049	8,325	-	1,431	-	614	614	-	4,306	4,306
China .....	-	-	-	-	-	-	-	-	-	-
Colombia .....	36,249	-	-	814	-	-	-	-	218	218
Finland .....	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	215	-	-	-	-	24	24
Indonesia .....	2,535	-	-	-	-	-	-	-	-	-
Japan .....	-	-	-	-	-	-	-	-	608	608
Korea, South .....	-	-	-	-	-	225	225	-	1,237	1,237
Malaysia .....	-	-	-	326	-	-	-	-	-	-
Mexico .....	8,077	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	59	-	43	43	-	643	643
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-
Oman .....	1,037	-	-	-	-	-	-	-	-	-
Papua New Guinea .....	-	-	-	-	-	-	-	-	-	-
Peru .....	572	-	-	1,561	-	-	-	-	-	-
Singapore .....	-	-	-	391	-	-	-	-	173	173
Sweden .....	-	-	-	112	-	-	-	-	-	-
Taiwan .....	-	-	-	-	-	-	-	-	719	719
United Kingdom .....	-	-	-	-	-	25	25	268	957	1,225
Vietnam .....	453	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-
Other .....	18,249	552	-	18,103	-	209	209	0	175	175
Total .....	334,292	8,877	-	30,920	-	1,116	1,116	268	9,060	9,328
Persian Gulf <sup>3</sup> .....	121,870	-	-	1,866	-	-	-	-	-	-

See footnotes at end of table.



**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygen-ates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
	PAD District 4										
OPEC .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC .....	-	-	-	37	-	-	392	-	-	-	392
Canada .....	-	-	-	37	-	-	392	-	-	-	392
Other .....	-	-	-	0	-	-	0	-	-	-	0
Total .....	-	-	-	37	-	-	392	-	-	-	392
	PAD District 5										
OPEC .....	-	-	-	-	-	-	-	-	-	-	-
Algeria .....	-	-	-	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-	-
Iraq .....	-	-	-	-	-	-	-	-	-	-	-
Kuwait .....	-	-	-	-	-	-	-	-	-	-	-
Libya .....	-	-	-	-	-	-	-	-	-	-	-
Nigeria .....	-	-	-	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates .....	-	-	-	-	-	-	-	-	-	-	-
Venezuela .....	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC .....	-	-	1,228	622	3,698	-	3,437	-	97	-	3,534
Argentina .....	-	-	-	-	-	-	-	-	-	-	-
Aruba .....	-	-	-	-	-	-	-	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-	-	-	-
Brazil .....	-	-	1,228	-	-	-	-	-	-	-	-
Brunei .....	-	-	-	-	-	-	-	-	-	-	-
Canada .....	-	-	-	568	220	-	2,164	-	97	-	2,261
China .....	-	-	-	-	-	-	498	-	-	-	498
Colombia .....	-	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	-	-	-	-	-	-	-	-
Germany .....	-	-	-	-	-	-	-	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-	-	-	-
Japan .....	-	-	-	-	-	-	299	-	-	-	299
Korea, South .....	-	-	-	54	-	-	476	-	-	-	476
Malaysia .....	-	-	-	-	-	-	-	-	-	-	-
Mexico .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands .....	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-	-
Oman .....	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea .....	-	-	-	-	-	-	-	-	-	-	-
Peru .....	-	-	-	-	-	-	-	-	-	-	-
Singapore .....	-	-	-	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-	-	-	-
Taiwan .....	-	-	-	-	-	-	-	-	-	-	-
United Kingdom .....	-	-	-	-	-	-	-	-	-	-	-
Vietnam .....	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-	-	-	-	-	-
Other .....	-	-	0	0	3,478	-	0	-	0	-	0
Total .....	-	-	1,228	622	3,698	-	3,437	-	97	-	3,534
Persian Gulf <sup>3</sup> .....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels) — Continued

Country of Origin			Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	Kerosene	Finished Aviation Gasoline							
	PAD District 4								
OPEC .....	—	—	—	106	—	—	—	—	—
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	98	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—
Non-OPEC .....	—	8	—	—	—	—	—	—	—
Canada .....	—	8	—	—	—	—	—	—	—
Other .....	—	0	—	0	—	—	—	—	—
Total .....	—	8	—	106	—	—	—	—	—
	PAD District 5								
OPEC .....	—	—	—	44	—	—	—	174	174
Algeria .....	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	174	174
Iran .....	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	—
Kuwait .....	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	43	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	1	—	—	—	—	—
Non-OPEC .....	55	16	—	25,563	45	—	1,051	10,873	11,924
Argentina .....	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	—	—	—	—
Brunei .....	—	—	—	—	—	—	—	—	—
Canada .....	—	16	—	9	—	—	561	948	1,509
China .....	—	—	—	3,136	—	—	—	—	—
Colombia .....	—	—	—	—	—	—	—	—	—
Finland .....	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—	—
Japan .....	—	—	—	4,560	—	—	—	—	—
Korea, South .....	55	—	—	17,826	45	—	—	—	—
Malaysia .....	—	—	—	—	—	—	—	—	—
Mexico .....	—	—	—	—	—	—	270	3,762	4,032
Netherlands .....	—	—	—	—	—	—	—	962	962
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	—
Papua New Guinea .....	—	—	—	—	—	—	—	—	—
Peru .....	—	—	—	—	—	—	220	2,149	2,369
Singapore .....	—	—	—	—	—	—	—	947	947
Sweden .....	—	—	—	—	—	—	—	—	—
Taiwan .....	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	—	—
Vietnam .....	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—
Other .....	0	0	—	32	0	—	0	2,105	2,105
Total .....	55	16	—	25,607	45	—	1,051	11,047	12,098
Persian Gulf <sup>3</sup> .....	—	—	—	43	—	—	—	—	—

See footnotes at end of table.

**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2017**  
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
	PAD District 4											
OPEC .....	—	—	—	—	—	—	—	106	106	—	0	0
Algeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Angola .....	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador .....	—	—	—	—	—	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	98	98	—	0	0
Kuwait .....	—	—	—	—	—	—	—	—	—	—	—	—
Libya .....	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—	—
Qatar .....	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC .....	—	—	—	—	388	—	10	3,992	79,118	275	15	290
Canada .....	—	—	—	—	388	—	10	3,992	79,118	275	15	290
Other .....	—	—	—	—	0	—	0	0	0	0	0	0
Total .....	—	—	—	—	388	—	10	4,098	79,224	275	15	290
	PAD District 5											
OPEC .....	—	—	—	—	—	—	—	8,075	197,637	694	30	724
Algeria .....	—	—	—	—	—	—	—	5,306	5,306	—	19	19
Angola .....	—	—	—	—	—	—	—	—	8,312	30	—	30
Ecuador .....	—	—	—	—	—	—	—	174	53,246	194	1	195
Iran .....	—	—	—	—	—	—	—	—	—	—	—	—
Iraq .....	—	—	—	—	—	—	—	—	16,990	62	—	62
Kuwait .....	—	—	—	—	—	—	—	—	17,691	65	—	65
Libya .....	—	—	—	—	—	—	—	685	3,853	12	3	14
Nigeria .....	—	—	—	—	—	—	—	—	2,137	8	—	8
Qatar .....	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	43	82,364	302	0	302
United Arab Emirates .....	—	—	—	—	—	—	—	1,866	6,734	18	7	25
Venezuela .....	—	—	—	—	—	—	—	1	1	—	0	0
Non-OPEC .....	273	32	294	254	891	496	1	91,310	236,040	530	334	865
Argentina .....	—	—	—	—	—	—	—	—	—	—	—	—
Aruba .....	—	—	—	—	—	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—	648	2	—	2
Brazil .....	—	—	—	—	—	—	—	1,279	16,895	57	5	62
Brunei .....	—	—	—	—	—	—	—	—	245	1	—	1
Canada .....	—	—	1	254	610	53	1	20,178	81,227	224	74	298
China .....	—	—	229	—	—	—	—	3,863	3,863	—	14	14
Colombia .....	—	—	—	—	1	—	—	1,033	37,282	133	4	137
Finland .....	—	—	—	—	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	—	—	239	239	—	1	1
Indonesia .....	—	—	—	—	—	—	—	—	2,535	9	—	9
Japan .....	—	—	61	—	—	2	—	5,530	5,530	—	20	20
Korea, South .....	36	—	—	—	—	73	—	20,027	20,027	—	73	73
Malaysia .....	—	—	3	—	209	—	—	538	538	—	2	2
Mexico .....	—	—	—	—	—	—	—	4,032	12,109	30	15	44
Netherlands .....	—	—	—	—	—	—	—	1,707	1,707	—	6	6
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—	—
Oman .....	—	—	—	—	—	—	—	—	1,037	4	—	4
Papua New Guinea .....	—	—	—	—	—	—	—	—	—	—	—	—
Peru .....	—	—	—	—	—	—	—	3,930	4,502	2	14	16
Singapore .....	—	—	—	—	—	—	—	4,989	4,989	—	18	18
Sweden .....	—	—	—	—	—	—	—	112	112	—	0	0
Taiwan .....	192	—	—	—	—	—	—	911	911	—	3	3
United Kingdom .....	—	—	—	—	—	—	—	1,250	1,250	—	5	5
Vietnam .....	—	—	—	—	—	—	—	—	453	2	—	2
Virgin Islands, U.S. ....	—	—	—	—	—	—	—	—	—	—	—	—
Other .....	45	32	0	0	71	368	0	21,692	39,941	66	80	148
Total .....	273	32	294	254	891	496	1	99,385	433,677	1,225	364	1,589
Persian Gulf <sup>3</sup> .....	—	—	—	—	—	—	—	1,909	123,779	446	7	453

— = No Data Reported.

Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

<sup>2</sup> Includes crude oil imported for storage in the Strategic Petroleum Reserve.

<sup>3</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

<sup>1</sup> Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

**Table 49. Exports of Crude Oil and Petroleum Products by PAD District, September 2017**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	—	5,277	38,863	40	—	44,181	1,473
<b>Hydrocarbon Gas Liquids</b> .....	3,709	7,317	29,358	62	1,413	41,859	1,395
Natural Gas Liquids .....	3,709	7,317	29,358	62	1,413	41,859	1,395
Ethane .....	996	1,902	3,225	—	—	6,123	204
Propane .....	2,274	140	23,498	0	1,161	27,073	902
Normal Butane .....	379	453	2,525	—	250	3,608	120
Isobutane .....	0	—	96	—	—	96	3
Natural Gasoline .....	60	4,823	13	62	1	4,959	165
Refinery Olefins .....	—	—	—	—	—	—	—
Ethylene .....	—	—	—	—	—	—	—
Propylene .....	—	—	—	—	—	—	—
Butylene .....	—	—	—	—	—	—	—
Isobutylene .....	—	—	—	—	—	—	—
<b>Other Liquids</b> .....	150	2,794	11,584	0	411	14,939	498
Hydrogen/Oxygenates/Renewables/							
Other Hydrocarbons .....	31	690	3,604	—	82	4,407	147
Hydrogen .....	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol) .....	1	0	2,241	—	2	2,244	75
Methyl Tertiary Butyl Ether (MTBE) .....	0	—	1,257	—	0	1,257	42
Other Oxygenates .....	1	0	983	—	2	987	33
Renewable Fuels (including Fuel Ethanol) ...	29	689	1,364	—	81	2,163	72
Fuel Ethanol .....	24	629	1,352	—	57	2,063	69
Biomass-Based Diesel .....	5	60	11	—	23	100	3
Other Renewable Diesel .....	—	—	—	—	—	—	—
Other Renewable Fuels .....	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	—	—	—	—
Unfinished Oils .....	28	1,923	6,407	0	35	8,394	280
Naphthas and Lighter .....	2	1,918	6,255	0	29	8,205	273
Kerosene and Light Gas Oils .....	26	5	152	0	6	189	6
Heavy Gas Oils .....	—	—	—	—	—	—	—
Residuum .....	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC) .....	91	181	1,573	0	293	2,139	71
Reformulated .....	0	—	8	—	0	8	0
Conventional .....	91	181	1,565	0	293	2,130	71
Aviation Gasoline Blend. Comp. ....	—	—	—	—	—	—	—
<b>Finished Petroleum Products</b> .....	8,239	1,589	67,543	34	9,515	86,920	2,897
Finished Motor Gasoline .....	624	349	17,190	—	2,133	20,296	677
Reformulated .....	—	—	—	—	—	—	—
Conventional .....	624	349	17,190	—	2,133	20,296	677
Finished Aviation Gasoline .....	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel .....	13	186	2,635	—	880	3,715	124
Kerosene .....	2	3	96	—	2	102	3
Distillate Fuel Oil .....	3,997	206	29,895	—	1,765	35,862	1,195
15 ppm sulfur and under .....	3,870	1	25,387	—	1,258	30,517	1,017
Greater than 15 ppm to 500 ppm sulfur .....	126	44	3,293	—	406	3,869	129
Greater than 500 ppm sulfur .....	0	161	1,215	—	101	1,477	49
Residual Fuel Oil .....	2,711	183	5,948	18	473	9,333	311
Naphtha for Petro. Feed. Use .....	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use .....	—	—	—	—	—	—	—
Special Naphthas .....	—	—	—	—	—	—	—
Lubricants .....	170	189	1,960	11	415	2,744	91
Waxes .....	66	21	25	0	6	118	4
Petroleum Coke .....	567	216	9,323	0	3,818	13,924	464
Asphalt and Road Oil .....	81	237	444	4	23	789	26
Miscellaneous Products .....	9	0	27	0	0	36	1
<b>Total</b> .....	12,098	16,978	147,348	137	11,339	187,899	6,263

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-September 2017**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
<b>Crude Oil<sup>1</sup></b> .....	<b>4,004</b>	<b>53,824</b>	<b>198,234</b>	<b>757</b>	<b>4,533</b>	<b>261,352</b>	<b>957</b>
<b>Hydrocarbon Gas Liquids</b> .....	<b>32,929</b>	<b>60,828</b>	<b>263,551</b>	<b>2,429</b>	<b>12,031</b>	<b>371,767</b>	<b>1,362</b>
Natural Gas Liquids .....	32,929	60,828	263,551	2,429	12,031	371,767	1,362
Ethane .....	10,057	16,807	19,817	—	0	46,682	171
Propane .....	12,822	2,167	215,709	1	8,628	238,502	874
Normal Butane .....	1,517	3,075	27,341	197	3,341	35,340	129
Isobutane .....	5	2	1,283	—	0	1,285	5
Natural Gasoline .....	8,534	38,796	293	2,232	104	49,959	183
Refinery Olefins .....	—	—	—	—	—	—	—
Ethylene .....	—	—	—	—	—	—	—
Propylene .....	—	—	—	—	—	—	—
Butylene .....	—	—	—	—	—	—	—
Isobutylene .....	—	—	—	—	—	—	—
<b>Other Liquids</b> .....	<b>12,031</b>	<b>16,878</b>	<b>96,770</b>	<b>98</b>	<b>5,346</b>	<b>131,122</b>	<b>480</b>
Hydrogen/Oxygenates/Renewables/							
Other Hydrocarbons .....	683	6,601	34,969	23	1,845	44,121	162
Hydrogen .....	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol) .....	10	5	18,340	—	16	18,372	67
Methyl Tertiary Butyl Ether (MTBE) .....	1	0	10,097	—	0	10,098	37
Other Oxygenates .....	10	5	8,243	—	16	8,273	30
Renewable Fuels (including Fuel Ethanol) ...	672	6,596	16,629	23	1,829	25,750	94
Fuel Ethanol .....	599	5,492	16,096	0	1,635	23,823	87
Biomass-Based Diesel .....	73	1,104	533	23	194	1,927	7
Other Renewable Diesel .....	—	—	—	—	—	—	—
Other Renewable Fuels .....	—	—	—	—	—	—	—
Other Hydrocarbons .....	—	—	—	—	—	—	—
Unfinished Oils .....	10,939	9,699	45,973	74	1,235	67,919	249
Naphthas and Lighter .....	10,457	9,644	40,031	73	1,192	61,397	225
Kerosene and Light Gas Oils .....	481	55	5,942	1	43	6,523	24
Heavy Gas Oils .....	—	—	—	—	—	—	—
Residuum .....	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC) .....	410	577	15,828	0	2,265	19,081	70
Reformulated .....	4	0	61	—	7	73	0
Conventional .....	406	577	15,767	0	2,258	19,008	70
Aviation Gasoline Blend. Comp. ....	—	—	—	—	—	—	—
<b>Finished Petroleum Products</b> .....	<b>49,572</b>	<b>12,581</b>	<b>735,044</b>	<b>341</b>	<b>90,466</b>	<b>888,003</b>	<b>3,253</b>
Finished Motor Gasoline .....	2,846	1,480	166,045	7	13,516	183,893	674
Reformulated .....	—	—	—	—	—	—	—
Conventional .....	2,846	1,480	166,045	7	13,516	183,893	674
Finished Aviation Gasoline .....	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel .....	1,143	1,854	40,456	—	8,525	51,977	190
Kerosene .....	642	16	605	—	28	1,291	5
Distillate Fuel Oil .....	22,924	2,107	321,675	—	25,685	372,391	1,364
15 ppm sulfur and under .....	19,822	10	278,930	—	16,086	314,849	1,153
Greater than 15 ppm to 500 ppm sulfur .....	2,999	1,029	26,456	—	2,032	32,517	119
Greater than 500 ppm sulfur .....	103	1,068	16,288	—	7,567	25,026	92
Residual Fuel Oil .....	13,236	2,448	60,840	172	4,918	81,615	299
Naphtha for Petro. Feed. Use .....	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use .....	—	—	—	—	—	—	—
Special Naphthas .....	—	—	—	—	—	—	—
Lubricants .....	1,794	1,667	25,458	103	2,433	31,455	115
Waxes .....	618	220	211	1	54	1,105	4
Petroleum Coke .....	5,552	1,705	117,052	1	35,031	159,341	584
Asphalt and Road Oil .....	711	1,079	2,490	56	273	4,609	17
Miscellaneous Products .....	105	5	212	0	2	324	1
<b>Total</b> .....	<b>98,536</b>	<b>144,110</b>	<b>1,293,598</b>	<b>3,625</b>	<b>112,375</b>	<b>1,652,244</b>	<b>6,052</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 51. Exports of Crude Oil and Petroleum Products by Destination, September 2017**  
(Thousand Barrels)

Destination	Crude Oil <sup>1</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina .....	285	0	—	160	—	200	200	—	0	0
Australia .....	—	1	—	0	—	0	0	0	0	0
Bahamas .....	1,495	2	—	0	—	79	79	—	0	0
Bahrain .....	—	—	—	—	—	1	1	—	—	—
Belgium .....	—	—	—	2	—	—	—	—	—	—
Belize .....	—	0	—	—	—	53	53	—	—	—
Brazil .....	1,378	1,719	—	1,553	—	643	643	—	0	0
Canada .....	10,254	7,474	—	1,929	—	590	590	—	749	749
Cayman Islands .....	—	—	—	—	—	10	10	0	—	0
Chile .....	—	1,096	—	318	—	473	473	—	—	—
China .....	7,545	4,686	—	1	—	15	15	0	—	0
Colombia .....	1,000	0	—	1,246	—	594	594	—	0	0
Costa Rica .....	—	—	—	1	—	589	589	—	—	—
Denmark .....	—	—	—	—	—	192	192	—	—	—
Dominican Republic .....	—	898	—	1	—	25	25	—	0	0
Ecuador .....	—	—	—	10	—	489	489	—	244	244
Egypt .....	—	—	—	—	—	—	—	—	—	—
El Salvador .....	—	164	—	0	—	313	313	—	0	0
Finland .....	—	—	—	—	—	—	—	—	—	—
France .....	1,606	7	—	27	—	—	—	0	—	0
Germany .....	545	—	—	4	—	—	—	—	—	—
Ghana .....	—	—	—	—	—	640	640	—	—	—
Gibraltar .....	—	—	—	—	—	—	—	—	—	—
Greece .....	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	418	—	5	—	698	698	—	34	34
Honduras .....	—	434	—	2	—	202	202	—	53	53
Hong Kong .....	—	—	—	0	—	—	—	—	—	—
India .....	2,946	2,472	—	0	—	—	—	—	—	—
Indonesia .....	—	274	—	0	—	—	—	—	—	—
Ireland .....	—	—	—	—	—	—	—	—	—	—
Israel .....	—	0	—	0	—	—	—	—	0	0
Italy .....	1,775	—	—	—	—	—	—	—	—	—
Jamaica .....	—	99	—	—	—	2	2	—	—	—
Japan .....	544	9,353	—	325	—	1	1	0	—	0
Korea, South .....	4,496	2,180	—	12	—	100	100	—	—	—
Lebanon .....	—	—	—	0	—	—	—	—	—	—
Mexico .....	—	3,754	—	333	—	11,392	11,392	8	818	826
Montenegro .....	—	—	—	—	—	—	—	—	—	—
Morocco .....	—	361	—	6	—	—	—	—	—	—
Mozambique .....	—	—	—	—	—	—	—	—	—	—
Netherlands .....	2,476	1,511	—	680	—	200	200	—	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
New Zealand .....	—	1	—	—	—	—	—	—	—	—
Nicaragua .....	—	—	—	—	—	103	103	—	0	0
Nigeria .....	—	—	—	0	—	—	—	—	—	—
Norway .....	—	340	—	—	—	—	—	—	—	—
Pakistan .....	—	—	—	—	—	—	—	—	—	—
Panama .....	—	1,067	—	0	—	1,018	1,018	—	—	—
Peru .....	—	511	—	5	—	170	170	—	—	—
Philippines .....	—	—	—	0	—	—	—	—	0	0
Portugal .....	—	—	—	—	—	—	—	—	—	—
Puerto Rico .....	—	12	—	1	—	6	6	—	—	—
Romania .....	—	—	—	—	—	0	0	—	—	—
Saudi Arabia .....	—	—	—	0	—	—	—	—	—	—
Serbia .....	—	—	—	—	—	—	—	—	—	—
Singapore .....	2,017	550	—	583	—	0	0	—	0	0
South Africa .....	—	—	—	—	—	—	—	—	—	—
Spain .....	975	587	—	0	—	—	—	—	—	—
Switzerland .....	620	—	—	—	—	—	—	—	—	—
Taiwan .....	—	0	—	230	—	—	—	—	230	230
Thailand .....	600	—	—	0	—	—	—	—	—	—
Trinidad and Tobago .....	—	0	—	0	—	0	0	—	—	—
Turkey .....	—	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	0	—	—	—	—	—	—
United Kingdom .....	3,623	1,336	—	0	—	0	0	—	0	0
Venezuela .....	—	1	—	926	—	150	150	—	—	—
Other .....	1	551	—	34	—	1,348	1,348	—	2	3
<b>Total .....</b>	<b>44,181</b>	<b>41,859</b>	<b>—</b>	<b>8,394</b>	<b>—</b>	<b>20,296</b>	<b>20,296</b>	<b>8</b>	<b>2,130</b>	<b>2,139</b>

See footnotes at end of table.

**Table 51. Exports of Crude Oil and Petroleum Products by Destination, September 2017**  
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina .....	—	—	0	—	—	—	806	10	—	—	816
Australia .....	0	—	—	—	—	—	0	—	—	—	0
Bahamas .....	—	0	0	—	—	—	39	—	1	—	40
Bahrain .....	—	—	—	—	—	—	—	—	—	—	—
Belgium .....	9	0	47	—	—	—	—	—	—	—	—
Belize .....	—	—	—	—	—	—	—	—	—	—	—
Brazil .....	—	0	454	—	—	—	6,752	565	30	—	7,347
Canada .....	—	0	687	83	—	—	1	249	261	—	511
Cayman Islands .....	—	—	—	—	—	—	38	—	—	—	38
Chile .....	210	0	0	—	—	—	2,399	—	260	—	2,659
China .....	0	0	0	0	—	—	271	—	0	—	271
Colombia .....	—	—	24	—	—	—	181	—	—	—	181
Costa Rica .....	—	—	0	—	—	—	549	—	—	—	549
Denmark .....	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic .....	—	—	1	—	—	—	119	—	—	—	119
Ecuador .....	—	—	—	—	—	—	783	526	—	—	1,309
Egypt .....	—	—	—	—	—	—	—	—	—	—	—
El Salvador .....	—	—	—	—	—	—	—	273	—	—	273
Finland .....	—	—	—	—	—	—	—	—	—	—	—
France .....	—	0	—	—	—	—	606	—	—	—	606
Germany .....	—	0	—	3	—	—	0	—	—	—	0
Ghana .....	—	—	—	—	—	—	—	—	—	—	—
Gibraltar .....	—	—	—	—	—	—	312	—	173	—	485
Greece .....	—	—	—	—	—	—	—	—	—	—	—
Guatemala .....	—	—	0	—	—	—	201	284	—	—	486
Honduras .....	—	—	—	—	—	—	164	118	—	—	282
Hong Kong .....	—	0	0	—	—	—	—	—	—	—	—
India .....	0	0	483	—	—	—	0	—	—	—	0
Indonesia .....	—	0	—	—	—	—	—	—	—	—	—
Ireland .....	—	—	0	—	—	—	—	—	—	—	—
Israel .....	—	0	—	0	—	—	0	—	—	—	0
Italy .....	—	—	—	—	—	—	—	—	—	—	—
Jamaica .....	—	—	48	—	—	—	60	—	—	—	60
Japan .....	—	984	0	—	—	—	0	—	—	—	0
Korea, South .....	—	0	62	—	—	—	1	—	—	—	1
Lebanon .....	—	—	—	—	—	—	—	409	—	—	409
Mexico .....	1,039	1	63	1	—	—	8,549	92	39	—	8,680
Montenegro .....	—	—	—	—	—	—	—	—	—	—	—
Morocco .....	—	—	—	—	—	—	—	—	—	—	—
Mozambique .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	0	50	1	—	—	1,609	529	—	—	2,138
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
New Zealand .....	—	—	0	—	—	—	—	—	—	—	—
Nicaragua .....	—	—	—	—	—	—	215	201	—	—	416
Nigeria .....	—	—	—	—	—	—	—	—	—	—	—
Norway .....	—	—	—	1	—	—	—	—	—	—	—
Pakistan .....	—	—	—	—	—	—	—	—	—	—	—
Panama .....	—	—	—	—	—	—	1,267	63	—	—	1,330
Peru .....	—	—	55	11	—	—	1,892	—	175	—	2,067
Philippines .....	—	0	50	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico .....	—	0	0	—	—	—	554	290	0	—	844
Romania .....	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia .....	0	0	0	—	—	—	—	—	—	—	—
Serbia .....	—	—	—	—	—	—	—	—	—	—	—
Singapore .....	—	1	0	0	—	—	446	—	—	—	446
South Africa .....	—	0	—	—	—	—	0	—	—	—	0
Spain .....	—	—	—	—	—	—	300	260	280	—	840
Switzerland .....	—	—	—	1	—	—	20	—	—	—	20
Taiwan .....	—	0	0	—	—	—	0	—	—	—	0
Thailand .....	—	0	—	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	0	—	—	—	—	—	—	—	—	—
Turkey .....	—	0	—	—	—	—	—	—	—	—	—
United Arab Emirates .....	—	—	—	—	—	—	0	—	—	—	0
United Kingdom .....	—	0	—	—	—	—	0	—	—	—	0
Venezuela .....	—	—	—	—	—	—	—	—	—	—	—
Other .....	0	1	39	0	—	—	2,383	—	258	—	2,639
<b>Total .....</b>	<b>1,257</b>	<b>987</b>	<b>2,063</b>	<b>100</b>	<b>—</b>	<b>—</b>	<b>30,517</b>	<b>3,869</b>	<b>1,477</b>	<b>—</b>	<b>35,862</b>

See footnotes at end of table.



**Table 51. Exports of Crude Oil and Petroleum Products by Destination, September 2017**  
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina .....	0	—	—	—	—	—	—	—
Australia .....	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	19	—	993	—	—
Bahrain .....	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	—	—	—
Belize .....	—	—	—	—	—	—	—	—
Brazil .....	—	—	—	—	—	445	—	—
Canada .....	3	—	—	815	—	1,341	—	—
Cayman Islands .....	—	—	—	6	—	1	—	—
Chile .....	1	—	—	—	—	—	—	—
China .....	0	—	—	0	—	—	—	—
Colombia .....	—	—	—	0	—	—	—	—
Costa Rica .....	—	—	—	84	—	1	—	—
Denmark .....	—	—	—	—	—	—	—	—
Dominican Republic .....	—	—	—	99	—	—	—	—
Ecuador .....	—	—	—	—	—	429	—	—
Egypt .....	—	—	—	—	—	—	—	—
El Salvador .....	—	—	—	10	—	—	—	—
Finland .....	95	—	—	—	—	—	—	—
France .....	—	—	—	—	—	—	—	—
Germany .....	—	—	—	—	—	1	—	—
Ghana .....	—	—	—	—	—	—	—	—
Gibraltar .....	—	—	—	—	—	313	—	—
Greece .....	—	—	—	—	—	—	—	—
Guatemala .....	—	—	—	41	—	17	—	—
Honduras .....	—	—	—	42	—	173	—	—
Hong Kong .....	1	—	—	—	—	—	—	—
India .....	—	—	—	—	—	—	—	—
Indonesia .....	—	—	—	—	—	—	—	—
Ireland .....	—	—	—	—	—	—	—	—
Israel .....	—	—	—	—	—	—	—	—
Italy .....	—	—	—	—	—	—	—	—
Jamaica .....	—	—	—	50	—	—	—	—
Japan .....	—	—	—	0	—	—	—	—
Korea, South .....	—	—	—	—	—	—	—	—
Lebanon .....	—	—	—	—	—	419	—	—
Mexico .....	0	—	—	1,532	—	1,225	—	—
Montenegro .....	—	—	—	—	—	—	—	—
Morocco .....	—	—	—	—	—	—	—	—
Mozambique .....	—	—	—	—	—	—	—	—
Netherlands .....	1	—	—	—	—	970	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—
New Zealand .....	—	—	—	—	—	—	—	—
Nicaragua .....	—	—	—	—	—	—	—	—
Nigeria .....	—	—	—	—	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—
Pakistan .....	—	—	—	—	—	—	—	—
Panama .....	—	—	—	567	—	320	—	—
Peru .....	—	—	—	252	—	—	—	—
Philippines .....	—	—	—	—	—	—	—	—
Portugal .....	—	—	—	—	—	—	—	—
Puerto Rico .....	0	—	—	0	—	1	—	—
Romania .....	—	—	—	—	—	—	—	—
Saudi Arabia .....	—	—	—	—	—	—	—	—
Serbia .....	—	—	—	—	—	—	—	—
Singapore .....	—	—	—	1	—	1,727	—	—
South Africa .....	—	—	—	—	—	—	—	—
Spain .....	—	—	—	—	—	—	—	—
Switzerland .....	—	—	—	—	—	—	—	—
Taiwan .....	—	—	—	—	—	0	—	—
Thailand .....	—	—	—	—	—	—	—	—
Trinidad and Tobago .....	—	—	—	0	—	0	—	—
Turkey .....	—	—	—	—	—	—	—	—
United Arab Emirates .....	0	—	—	0	—	—	—	—
United Kingdom .....	—	—	—	—	—	231	—	—
Venezuela .....	—	—	—	—	—	—	—	—
Other .....	1	—	—	197	—	726	—	—
<b>Total .....</b>	<b>102</b>	<b>—</b>	<b>—</b>	<b>3,715</b>	<b>—</b>	<b>9,333</b>	<b>—</b>	<b>—</b>

See footnotes at end of table.

**Table 51. Exports of Crude Oil and Petroleum Products by Destination, September 2017**  
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina .....	0	165	104	113	—	1,558	1,843	10	52	61
Australia .....	0	78	—	4	1	84	84	—	3	3
Bahamas .....	—	—	2	2	—	1,137	2,632	50	38	88
Bahrain .....	0	—	—	0	—	1	1	—	0	0
Belgium .....	0	326	0	364	0	747	747	—	25	25
Belize .....	—	—	0	1	—	54	54	—	2	2
Brazil .....	0	1,110	0	133	0	13,405	14,784	46	447	493
Canada .....	78	649	317	276	2	15,502	25,756	342	517	859
Cayman Islands .....	—	—	2	1	—	57	57	—	2	2
Chile .....	1	—	2	105	—	4,866	4,866	—	162	162
China .....	11	895	1	48	0	5,931	13,475	251	198	449
Colombia .....	0	—	42	80	0	2,167	3,167	33	72	106
Costa Rica .....	0	—	35	18	0	1,277	1,277	—	43	43
Denmark .....	—	—	—	1	—	193	193	—	6	6
Dominican Republic .....	0	—	33	22	—	1,198	1,198	—	40	40
Ecuador .....	0	158	0	62	—	2,701	2,701	—	90	90
Egypt .....	0	275	—	0	—	275	275	—	9	9
El Salvador .....	0	—	—	48	—	809	809	—	27	27
Finland .....	—	—	—	1	—	96	96	—	3	3
France .....	0	—	—	84	—	725	2,331	54	24	78
Germany .....	3	0	0	106	—	116	661	18	4	22
Ghana .....	—	—	—	0	—	640	640	—	21	21
Gibraltar .....	—	—	—	—	—	799	799	—	27	27
Greece .....	—	63	—	0	—	63	63	—	2	2
Guatemala .....	0	—	0	17	—	1,717	1,717	—	57	57
Honduras .....	—	272	33	10	—	1,503	1,503	—	50	50
Hong Kong .....	0	—	0	2	0	4	4	—	0	0
India .....	3	1,675	1	5	0	4,640	7,586	98	155	253
Indonesia .....	0	0	0	2	0	278	278	—	9	9
Ireland .....	—	120	—	0	—	120	120	—	4	4
Israel .....	0	—	—	1	—	2	2	—	0	0
Italy .....	0	259	—	1	0	260	2,035	59	9	68
Jamaica .....	—	—	0	5	0	264	264	—	9	9
Japan .....	1	2,876	1	23	2	13,565	14,109	18	452	470
Korea, South .....	0	552	1	10	0	2,919	7,415	150	97	247
Lebanon .....	—	—	—	1	—	829	829	—	28	28
Mexico .....	14	1,797	150	820	26	31,652	31,652	—	1,055	1,055
Montenegro .....	—	—	—	—	—	—	—	—	—	—
Morocco .....	—	876	—	0	—	1,243	1,243	—	41	41
Mozambique .....	—	40	—	0	—	41	41	—	1	1
Netherlands .....	3	3	0	24	0	5,581	8,057	83	186	269
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
New Zealand .....	0	90	1	1	—	93	93	—	3	3
Nicaragua .....	—	—	—	4	—	523	523	—	17	17
Nigeria .....	—	—	—	2	—	2	2	—	0	0
Norway .....	—	69	—	1	—	410	410	—	14	14
Pakistan .....	0	—	0	0	—	0	0	—	0	0
Panama .....	—	—	34	9	0	4,345	4,345	—	145	145
Peru .....	0	0	0	84	0	3,156	3,156	—	105	105
Philippines .....	0	—	—	1	0	52	52	—	2	2
Portugal .....	—	211	—	0	—	212	212	—	7	7
Puerto Rico .....	0	—	0	11	—	875	875	—	29	29
Romania .....	0	—	—	0	—	0	0	—	0	0
Saudi Arabia .....	0	142	—	6	—	148	148	—	5	5
Serbia .....	—	—	—	—	—	—	—	—	—	—
Singapore .....	0	0	—	30	0	3,340	5,357	67	111	179
South Africa .....	0	2	0	74	—	77	77	—	3	3
Spain .....	0	514	—	1	—	1,942	2,918	33	65	97
Switzerland .....	—	—	—	0	—	21	641	21	1	21
Taiwan .....	0	—	1	3	0	465	465	—	15	15
Thailand .....	0	—	—	3	0	3	603	20	0	20
Trinidad and Tobago .....	—	0	0	3	0	4	4	—	0	0
Turkey .....	0	588	0	8	—	596	596	—	20	20
United Arab Emirates .....	0	—	—	44	0	45	45	—	2	2
United Kingdom .....	0	44	0	25	0	1,637	5,260	121	55	175
Venezuela .....	—	55	—	1	—	1,133	1,133	—	38	38
Other .....	4	20	29	43	5	5,620	5,620	0	187	187
<b>Total .....</b>	<b>118</b>	<b>13,924</b>	<b>789</b>	<b>2,744</b>	<b>36</b>	<b>143,718</b>	<b>187,899</b>	<b>1,473</b>	<b>4,791</b>	<b>6,263</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-September 2017**  
(Thousand Barrels)

Destination	Crude Oil <sup>1</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina .....	1,376	1	—	629	—	1,448	1,448	—	0	0
Australia .....	223	4,417	—	3	—	3	3	1	1	2
Bahamas .....	4,832	198	—	314	—	1,341	1,341	0	2	2
Bahrain .....	—	—	—	—	—	5	5	1	—	1
Belgium .....	—	544	—	415	—	422	422	—	1	1
Belize .....	—	0	—	0	—	514	514	—	0	0
Brazil .....	2,067	14,342	—	4,072	—	7,390	7,390	—	163	163
Canada .....	84,864	72,158	—	19,082	—	3,843	3,843	—	3,385	3,385
Cayman Islands .....	—	12	—	0	—	158	158	0	0	0
Chile .....	—	7,341	—	1,047	—	2,026	2,026	—	1	1
China .....	49,567	36,890	—	2,313	—	92	92	0	5	5
Colombia .....	6,937	188	—	11,699	—	7,363	7,363	—	248	248
Costa Rica .....	—	1,023	—	32	—	5,202	5,202	—	704	704
Denmark .....	683	—	—	0	—	193	193	—	—	—
Dominican Republic .....	1,285	8,990	—	20	—	3,084	3,084	0	281	282
Ecuador .....	—	3,868	—	305	—	6,211	6,211	0	507	507
Egypt .....	—	2,181	—	2	—	—	—	—	—	—
El Salvador .....	—	1,800	—	4	—	3,069	3,069	—	1	1
Finland .....	—	—	—	—	—	0	0	0	—	0
France .....	4,856	3,114	—	805	—	1	1	9	0	10
Germany .....	545	0	—	37	—	3	3	0	1	1
Ghana .....	—	1,480	—	—	—	966	966	—	0	0
Gibraltar .....	295	—	—	—	—	—	—	—	—	—
Greece .....	—	0	—	—	—	1	1	—	—	—
Guatemala .....	—	3,134	—	55	—	10,389	10,389	—	201	201
Honduras .....	—	2,983	—	7	—	2,912	2,912	—	569	569
Hong Kong .....	732	1,151	—	2	—	1	1	—	0	0
India .....	6,214	14,773	—	8	—	1	1	0	0	0
Indonesia .....	—	3,456	—	18	—	—	—	0	—	0
Ireland .....	—	—	—	0	—	1	1	—	—	—
Israel .....	—	3	—	4	—	8	8	—	0	0
Italy .....	9,054	235	—	26	—	—	—	—	—	—
Jamaica .....	—	380	—	0	—	715	715	—	0	0
Japan .....	7,622	55,083	—	2,324	—	154	154	4	4	8
Korea, South .....	12,785	26,377	—	1,068	—	311	311	0	1	1
Lebanon .....	—	—	—	0	—	—	—	—	—	—
Mexico .....	—	33,973	—	4,145	—	102,004	102,004	54	11,206	11,260
Montenegro .....	—	—	—	—	—	—	—	—	—	—
Morocco .....	—	1,940	—	51	—	—	—	—	—	—
Mozambique .....	—	551	—	—	—	—	—	—	—	—
Netherlands .....	17,883	10,572	—	7,347	—	1,072	1,072	—	34	34
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
New Zealand .....	—	5	—	0	—	1	1	—	0	0
Nicaragua .....	801	0	—	0	—	1,036	1,036	—	0	0
Nigeria .....	—	—	—	1	—	631	631	—	—	—
Norway .....	675	7,660	—	—	—	1	1	0	—	0
Pakistan .....	—	—	—	—	—	—	—	—	—	—
Panama .....	1,125	2,999	—	50	—	6,720	6,720	—	198	198
Peru .....	1,719	513	—	17	—	4,830	4,830	—	246	246
Philippines .....	—	—	—	1	—	—	—	—	0	0
Portugal .....	—	988	—	—	—	1	1	—	—	—
Puerto Rico .....	—	29	—	3	—	238	238	0	10	10
Romania .....	—	—	—	—	—	0	0	—	—	—
Saudi Arabia .....	—	0	—	23	—	3	3	1	—	1
Serbia .....	—	—	—	—	—	—	—	—	—	—
Singapore .....	9,318	15,395	—	725	—	139	139	—	0	0
South Africa .....	500	179	—	1	—	299	299	—	0	0
Spain .....	3,920	3,238	—	0	—	0	0	—	238	238
Switzerland .....	620	0	—	0	—	458	458	—	0	0
Taiwan .....	—	275	—	1,431	—	3	3	—	234	234
Thailand .....	2,199	1	—	15	—	—	—	—	0	0
Trinidad and Tobago .....	—	4	—	39	—	1	1	1	0	1
Turkey .....	—	3,718	—	0	—	—	—	1	0	1
United Arab Emirates .....	—	255	—	42	—	1	1	0	—	0
United Kingdom .....	19,837	10,528	—	157	—	7	7	0	1	1
Venezuela .....	—	253	—	8,271	—	4,370	4,370	—	577	577
Other .....	8,818	12,569	—	1,309	—	4,251	4,251	1	189	188
<b>Total .....</b>	<b>261,352</b>	<b>371,767</b>	<b>—</b>	<b>67,919</b>	<b>—</b>	<b>183,893</b>	<b>183,893</b>	<b>73</b>	<b>19,008</b>	<b>19,081</b>

See footnotes at end of table.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-September 2017**  
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina .....	—	0	2	—	—	—	9,531	740	1,301	—	11,573
Australia .....	0	0	1	—	—	—	319	—	1	—	319
Bahamas .....	—	2	2	—	—	—	1,216	75	2,860	—	4,152
Bahrain .....	—	—	0	—	—	—	—	—	—	—	—
Belgium .....	67	0	47	0	—	—	1,545	278	953	—	2,775
Belize .....	—	—	0	—	—	—	0	113	—	—	113
Brazil .....	0	0	8,479	2	—	—	49,696	3,815	260	—	53,771
Canada .....	—	4	5,881	1,693	—	—	9	3,477	1,960	—	5,445
Cayman Islands .....	—	—	0	—	—	—	1,267	0	0	—	1,267
Chile .....	1,910	0	2	—	—	—	25,622	—	260	—	25,882
China .....	0	1	2	0	—	—	280	—	0	—	280
Colombia .....	—	0	276	—	—	—	5,549	—	—	—	5,549
Costa Rica .....	—	0	2	—	—	—	6,371	—	0	—	6,372
Denmark .....	—	—	—	—	—	—	48	125	—	—	173
Dominican Republic .....	—	—	6	—	—	—	2,092	477	308	—	2,877
Ecuador .....	—	0	0	—	—	—	6,481	2,386	264	—	9,130
Egypt .....	—	0	1	—	—	—	0	—	—	—	0
El Salvador .....	—	—	—	—	—	—	463	2,520	0	—	2,983
Finland .....	—	—	—	—	—	—	300	—	—	—	300
France .....	—	1	4	—	—	—	16,507	329	363	—	17,199
Germany .....	—	0	1	7	—	—	599	—	—	—	599
Ghana .....	—	—	0	—	—	—	—	—	—	—	—
Gibraltar .....	—	—	—	—	—	—	5,229	1,749	807	—	7,785
Greece .....	—	—	1	—	—	—	—	—	—	—	—
Guatemala .....	—	0	0	—	—	—	11,284	3,320	694	—	15,298
Honduras .....	—	—	0	—	—	—	2,462	1,210	113	—	3,785
Hong Kong .....	—	0	0	—	—	—	1	—	—	—	1
India .....	0	0	2,951	—	—	—	3	—	—	—	3
Indonesia .....	—	0	0	—	—	—	—	—	—	—	—
Ireland .....	0	0	1	—	—	—	—	—	—	—	—
Israel .....	—	0	1	0	—	—	1	—	—	—	1
Italy .....	—	0	0	4	—	—	1,013	20	—	—	1,033
Jamaica .....	—	—	396	—	—	—	1,750	75	712	—	2,538
Japan .....	—	8,240	8	—	—	—	1	—	—	—	1
Korea, South .....	0	1	725	2	—	—	6	—	715	—	721
Lebanon .....	—	0	—	—	—	—	0	409	281	—	690
Mexico .....	6,697	9	487	82	—	—	62,480	823	287	—	63,589
Montenegro .....	—	—	—	—	—	—	—	—	—	—	—
Morocco .....	—	—	—	—	—	—	5,058	—	—	—	5,058
Mozambique .....	—	—	—	—	—	—	—	—	—	—	—
Netherlands .....	—	3	385	10	—	—	22,952	1,976	797	—	25,724
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—	—
New Zealand .....	—	0	1	—	—	—	—	—	—	—	—
Nicaragua .....	—	—	0	4	—	—	268	1,153	100	—	1,521
Nigeria .....	—	—	384	—	—	—	—	—	—	—	—
Norway .....	—	0	0	4	—	—	10	—	—	—	10
Pakistan .....	—	0	0	—	—	—	—	—	—	—	—
Panama .....	—	0	0	0	—	—	10,044	1,642	645	—	12,331
Peru .....	—	0	676	103	—	—	19,058	358	404	—	19,820
Philippines .....	—	0	1,218	—	—	—	0	0	—	—	0
Portugal .....	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico .....	—	2	173	—	—	—	881	293	1	—	1,175
Romania .....	—	—	—	—	—	—	311	—	—	—	311
Saudi Arabia .....	1	0	1	—	—	—	1	—	—	—	1
Serbia .....	—	—	—	—	—	—	—	—	—	—	—
Singapore .....	0	6	326	2	—	—	6,051	—	3,690	—	9,740
South Africa .....	—	0	—	0	—	—	1,013	—	—	—	1,013
Spain .....	—	—	0	1	—	—	3,119	260	555	—	3,935
Switzerland .....	—	—	98	13	—	—	60	149	—	—	209
Taiwan .....	0	0	2	—	—	—	1	—	0	—	1
Thailand .....	—	0	0	—	—	—	2	—	0	—	2
Trinidad and Tobago .....	—	0	0	0	—	—	1	—	0	—	1
Turkey .....	—	0	—	—	—	—	375	—	—	—	375
United Arab Emirates .....	—	0	865	—	—	—	3	—	—	—	3
United Kingdom .....	—	1	102	—	—	—	9,826	0	423	—	10,249
Venezuela .....	1,424	0	0	—	—	—	3,103	285	1,064	—	4,452
Other .....	0	3	316	—	—	—	20,587	4,460	5,208	—	30,256
<b>Total .....</b>	<b>10,098</b>	<b>8,273</b>	<b>23,823</b>	<b>1,927</b>	<b>—</b>	<b>—</b>	<b>314,849</b>	<b>32,517</b>	<b>25,026</b>	<b>—</b>	<b>372,391</b>

See footnotes at end of table.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-September 2017**  
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina .....	0	—	—	475	—	37	—	—
Australia .....	—	—	—	—	—	—	—	—
Bahamas .....	—	—	—	344	—	4,083	—	—
Bahrain .....	—	—	—	—	—	—	—	—
Belgium .....	—	—	—	—	—	84	—	—
Belize .....	0	—	—	—	—	—	—	—
Brazil .....	0	—	—	1,702	—	445	—	—
Canada .....	600	—	—	10,584	—	10,092	—	—
Cayman Islands .....	57	—	—	1,519	—	1	—	—
Chile .....	7	—	—	1,825	—	0	—	—
China .....	5	—	—	4	—	1,688	—	—
Colombia .....	4	—	—	847	—	301	—	—
Costa Rica .....	0	—	—	1,112	—	202	—	—
Denmark .....	—	—	—	519	—	—	—	—
Dominican Republic .....	0	—	—	1,546	—	271	—	—
Ecuador .....	—	—	—	89	—	3,197	—	—
Egypt .....	—	—	—	—	—	887	—	—
El Salvador .....	0	—	—	260	—	—	—	—
Finland .....	142	—	—	307	—	—	—	—
France .....	48	—	—	942	—	—	—	—
Germany .....	0	—	—	—	—	2	—	—
Ghana .....	—	—	—	1	—	—	—	—
Gibraltar .....	—	—	—	—	—	873	—	—
Greece .....	—	—	—	—	—	0	—	—
Guatemala .....	97	—	—	932	—	1,105	—	—
Honduras .....	50	—	—	541	—	2,413	—	—
Hong Kong .....	1	—	—	—	—	0	—	—
India .....	0	—	—	1	—	0	—	—
Indonesia .....	—	—	—	0	—	—	—	—
Ireland .....	—	—	—	—	—	—	—	—
Israel .....	1	—	—	991	—	—	—	—
Italy .....	—	—	—	0	—	—	—	—
Jamaica .....	0	—	—	921	—	2,770	—	—
Japan .....	1	—	—	1	—	0	—	—
Korea, South .....	0	—	—	0	—	0	—	—
Lebanon .....	—	—	—	—	—	4,854	—	—
Mexico .....	30	—	—	10,815	—	11,357	—	—
Montenegro .....	—	—	—	—	—	—	—	—
Morocco .....	—	—	—	1,165	—	578	—	—
Mozambique .....	—	—	—	—	—	—	—	—
Netherlands .....	3	—	—	2,309	—	3,086	—	—
Netherlands Antilles .....	—	—	—	—	—	—	—	—
New Zealand .....	—	—	—	—	—	—	—	—
Nicaragua .....	0	—	—	—	—	0	—	—
Nigeria .....	—	—	—	0	—	—	—	—
Norway .....	—	—	—	—	—	—	—	—
Pakistan .....	—	—	—	—	—	0	—	—
Panama .....	0	—	—	4,889	—	4,184	—	—
Peru .....	0	—	—	2,219	—	192	—	—
Philippines .....	—	—	—	0	—	0	—	—
Portugal .....	—	—	—	—	—	—	—	—
Puerto Rico .....	1	—	—	1	—	4	—	—
Romania .....	—	—	—	—	—	—	—	—
Saudi Arabia .....	1	—	—	—	—	0	—	—
Serbia .....	—	—	—	—	—	—	—	—
Singapore .....	1	—	—	1	—	21,979	—	—
South Africa .....	—	—	—	304	—	380	—	—
Spain .....	—	—	—	0	—	0	—	—
Switzerland .....	—	—	—	—	—	—	—	—
Taiwan .....	0	—	—	1	—	5	—	—
Thailand .....	0	—	—	—	—	0	—	—
Trinidad and Tobago .....	0	—	—	3	—	0	—	—
Turkey .....	0	—	—	—	—	—	—	—
United Arab Emirates .....	2	—	—	1	—	301	—	—
United Kingdom .....	—	—	—	630	—	554	—	—
Venezuela .....	—	—	—	—	—	648	—	—
Other .....	240	—	—	4,176	—	5,042	—	—
<b>Total .....</b>	<b>1,291</b>	<b>—</b>	<b>—</b>	<b>51,977</b>	<b>—</b>	<b>81,615</b>	<b>—</b>	<b>—</b>

See footnotes at end of table.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-September 2017**  
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina .....	3	533	195	2,667	0	17,564	18,940	5	64	69
Australia .....	5	1,744	1	106	1	6,602	6,825	1	24	25
Bahamas .....	0	—	29	410	0	10,877	15,708	18	40	58
Bahrain .....	0	—	—	4	—	10	10	—	0	0
Belgium .....	4	1,650	1	2,969	2	8,983	8,983	—	33	33
Belize .....	—	—	0	11	—	639	639	—	2	2
Brazil .....	4	10,144	1	2,213	4	102,733	104,800	8	376	384
Canada .....	706	4,998	1,738	2,469	29	142,709	227,573	311	523	834
Cayman Islands .....	—	—	8	14	—	3,035	3,035	—	11	11
Chile .....	3	—	405	777	1	41,227	41,227	—	151	151
China .....	88	14,748	31	706	7	56,860	106,426	182	208	390
Colombia .....	3	1	114	813	2	27,407	34,344	25	100	126
Costa Rica .....	1	659	168	157	0	15,634	15,634	—	57	57
Denmark .....	0	606	2	202	—	1,694	2,377	3	6	9
Dominican Republic .....	2	655	307	212	1	18,253	19,538	5	67	72
Ecuador .....	1	1,146	1	410	0	24,866	24,866	—	91	91
Egypt .....	0	3,608	0	17	0	6,697	6,697	—	25	25
El Salvador .....	1	152	0	216	—	8,487	8,487	—	31	31
Finland .....	0	275	0	6	0	1,031	1,031	—	4	4
France .....	2	1,499	0	656	0	24,281	29,137	18	89	107
Germany .....	15	311	7	916	0	1,899	2,444	2	7	9
Ghana .....	0	—	—	2	—	2,450	2,450	—	9	9
Gibraltar .....	—	—	36	1,624	—	10,319	10,614	1	38	39
Greece .....	0	3,873	1	3	—	3,879	3,879	—	14	14
Guatemala .....	1	1,609	0	170	—	32,992	32,992	—	121	121
Honduras .....	0	1,609	102	105	—	15,077	15,077	—	55	55
Hong Kong .....	5	0	0	23	1	1,185	1,918	3	4	7
India .....	17	26,466	9	703	1	44,933	51,147	23	165	187
Indonesia .....	1	0	13	30	0	3,520	3,520	—	13	13
Ireland .....	0	505	—	0	0	508	508	—	2	2
Israel .....	0	1,434	—	718	0	3,162	3,162	—	12	12
Italy .....	2	4,223	1	107	2	5,634	14,688	33	21	54
Jamaica .....	0	0	1	107	2	7,830	7,830	—	29	29
Japan .....	10	15,689	4	165	24	81,713	89,334	28	299	327
Korea, South .....	2	5,773	55	228	4	35,267	48,052	47	129	176
Lebanon .....	0	943	—	10	—	6,497	6,497	—	24	24
Mexico .....	142	17,035	903	5,667	93	268,286	268,286	—	983	983
Montenegro .....	—	—	—	—	—	—	—	—	—	—
Morocco .....	—	4,116	—	1	—	12,908	12,908	—	47	47
Mozambique .....	—	555	—	0	—	1,107	1,107	—	4	4
Netherlands .....	30	1,547	9	578	10	52,719	70,602	66	193	259
Netherlands Antilles .....	—	—	—	—	—	—	—	—	—	—
New Zealand .....	0	507	2	8	0	523	523	—	2	2
Nicaragua .....	0	—	0	52	—	2,614	3,415	3	10	13
Nigeria .....	—	—	—	657	—	1,673	1,673	—	6	6
Norway .....	0	808	1	3	0	8,488	9,163	2	31	34
Pakistan .....	0	0	1	4	0	6	6	—	0	0
Panama .....	0	—	156	223	114	31,865	32,990	4	117	121
Peru .....	1	360	2	593	0	29,573	31,292	6	108	115
Philippines .....	1	573	—	10	2	1,805	1,805	—	7	7
Portugal .....	0	1,242	—	1	—	2,231	2,231	—	8	8
Puerto Rico .....	1	0	2	109	0	1,747	1,747	—	6	6
Romania .....	0	191	—	1	—	503	503	—	2	2
Saudi Arabia .....	1	540	2	74	0	648	648	—	2	2
Serbia .....	—	—	—	—	—	—	—	—	—	—
Singapore .....	2	0	0	753	0	49,071	58,389	34	180	214
South Africa .....	1	254	1	603	—	3,035	3,535	2	11	13
Spain .....	4	5,757	30	9	0	13,213	17,133	14	48	63
Switzerland .....	0	—	—	0	0	779	1,399	2	3	5
Taiwan .....	29	233	5	63	1	2,284	2,284	—	8	8
Thailand .....	1	0	12	38	2	71	2,270	8	0	8
Trinidad and Tobago .....	0	1	0	74	0	125	125	—	0	0
Turkey .....	0	13,847	0	158	—	18,101	18,101	—	66	66
United Arab Emirates .....	0	306	3	411	0	2,191	2,191	—	8	8
United Kingdom .....	2	885	2	60	0	23,178	43,014	73	85	158
Venezuela .....	0	193	2	790	0	20,981	20,981	—	77	77
Other .....	14	5,538	246	569	21	64,713	73,534	30	239	266
<b>Total .....</b>	<b>1,105</b>	<b>159,341</b>	<b>4,609</b>	<b>31,455</b>	<b>324</b>	<b>1,390,892</b>	<b>1,652,244</b>	<b>957</b>	<b>5,095</b>	<b>6,052</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, September 2017**  
(Thousand Barrels per Day)

Country of Origin	Crude Oil <sup>1</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b> .....	<b>2,570</b>	<b>0</b>	<b>-</b>	<b>113</b>	<b>-</b>	<b>-21</b>	<b>-21</b>	<b>-</b>	<b>71</b>	<b>71</b>
Algeria .....	56	-	-	90	-	-	-	-	-	-
Angola .....	160	-	-	4	-	-	-	-	7	7
Ecuador .....	223	-	-	0	-	-16	-16	-	-8	-8
Equatorial Guinea .....	-	-	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-	-	-
Iraq .....	499	-	-	0	-	-	-	-	-	-
Kuwait .....	127	0	-	-	-	0	0	-	-	-
Libya .....	37	-	-	9	-	-	-	-	-	-
Nigeria .....	224	-	-	12	-	-	-	-	56	56
Qatar .....	-	-	-	0	-	-	-	-	-	-
Saudi Arabia .....	666	-	-	0	-	-	-	-	-	-
United Arab Emirates .....	33	-	-	21	-	-	-	-	-	-
Venezuela .....	545	0	-	-23	-	-5	-5	-	16	16
<b>Non-OPEC</b> .....	<b>3,232</b>	<b>-1,257</b>	<b>27</b>	<b>310</b>	<b>-</b>	<b>-614</b>	<b>-614</b>	<b>178</b>	<b>441</b>	<b>619</b>
Argentina .....	-10	0	-	-5	-	-7	-7	-	0	0
Aruba .....	-	0	-	-	-	-2	-2	-	-	-
Australia .....	-	0	-	0	-	0	0	0	0	0
Bahamas .....	-50	0	-	0	-	-3	-3	-	0	0
Bahrain .....	-	-	-	-	-	0	0	-	-	-
Belgium .....	-	-	-	57	-	-	-	-	2	2
Brazil .....	175	-57	-	-52	-	-21	-21	-	10	10
Brunei .....	-	-	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-	-	-
Canada .....	3,007	-115	22	-64	-	10	10	99	43	142
Chad .....	63	-	-	-	-	-	-	-	-	-
China .....	-251	-156	-	0	-	-1	-1	0	-	0
Colombia .....	317	2	-	-34	-	-20	-20	-	7	7
Denmark .....	21	-	-	13	-	-6	-6	-	4	4
Dominican Republic .....	-	-28	-	0	-	-1	-1	-	0	0
Estonia .....	-	-	-	-	-	-	-	-	-	-
Finland .....	-	-	-	0	-	1	1	-	11	11
France .....	-54	0	-	2	-	-	-	0	20	20
Germany .....	-18	-	-	8	-	-	-	-	0	0
Guatemala .....	-	-14	-	0	-	-23	-23	-	-1	-1
Honduras .....	-	-14	-	0	-	-7	-7	-	-2	-2
India .....	-98	-82	-	4	-	-	-	-	79	79
Indonesia .....	30	-9	-	0	-	-	-	-	-	-
Italy .....	-59	-	-	9	-	-	-	1	24	25
Japan .....	-18	-312	-	-11	-	0	0	0	2	2
Korea, South .....	-150	-73	-	0	-	-2	-2	-	1	1
Latvia .....	-	-	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	3	-	-	-	-	11	11
Malaysia .....	-	-	-	11	-	-17	-17	-	0	0
Mexico .....	374	-125	1	-11	-	-380	-380	0	-27	-28
Netherlands .....	-83	-50	-	11	-	-6	-6	15	30	45
Netherlands Antilles .....	-	-	-	-	-	-	-	-	-	-
Norway .....	47	-11	-	29	-	-	-	10	10	19
Oman .....	35	-	-	-	-	-	-	-	-	-
Panama .....	-	-36	-	0	-	-34	-34	-	-	-
Portugal .....	-	-	-	-	-	-	-	-	44	44
Puerto Rico .....	-	0	-	0	-	0	0	-	-	-
Russia .....	86	0	-	256	-	-	-	6	65	71
Spain .....	-33	-20	-	23	-	-	-	-	41	41
Sweden .....	-	-	-	9	-	-	-	-	3	3
Trinidad and Tobago .....	-	0	-	0	-	0	0	-	-	-
United Kingdom .....	-75	-45	-	8	-	0	0	49	45	94
Vietnam .....	15	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	0	-	-	-	-8	-8	-	0	0
Yemen .....	-	-	-	-	-	0	0	-	-	-
Other .....	-39	-112	4	44	-	-87	-87	-2	19	19
<b>Total</b> .....	<b>5,803</b>	<b>-1,257</b>	<b>27</b>	<b>422</b>	<b>-</b>	<b>-635</b>	<b>-635</b>	<b>178</b>	<b>511</b>	<b>690</b>
<b>Persian Gulf<sup>2</sup></b> .....	<b>1,326</b>	<b>0</b>	<b>-</b>	<b>21</b>	<b>-</b>	<b>0</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>

See footnotes at end of table.

**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, September 2017**  
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-26</b>	<b>-18</b>	<b>3</b>	<b>-</b>	<b>-40</b>
Algeria	-	-	-	-	-	-	-	-	0	-	0
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-26	-18	-	-	-44
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	0	0	0	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	0	-	-	-	0
Venezuela	-	-	-	-	-	-	-	-	3	-	3
<b>Non-OPEC</b>	<b>-38</b>	<b>-26</b>	<b>-60</b>	<b>4</b>	<b>21</b>	<b>-</b>	<b>-915</b>	<b>-110</b>	<b>-20</b>	<b>3</b>	<b>-1,043</b>
Argentina	1	-	0	-	-	-	-27	0	-	-	-27
Aruba	-	-	-	-	-	-	-11	-	-	-	-11
Australia	0	-	-	-	-	-	0	-	-	-	0
Bahamas	-	0	0	-	-	-	-1	-	0	-	-1
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	0	0	-2	-	-	-	-	-	-	-	-
Brazil	2	6	-7	-	-	-	-225	-19	-1	-	-245
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	0	-23	2	7	-	57	-7	17	3	70
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	0	-	-	-2	-	0	-	-2
Colombia	-	-	-1	-	-	-	-6	-	-	-	-6
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-4	-	-	-	-4
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	0	-	-	-	-	-20	-	-	-	-20
Germany	-	0	-	0	-	-	0	-	-	-	0
Guatemala	-	-	0	-	-	-	-7	-9	-	-	-16
Honduras	-	-	-	-	-	-	-5	-4	-	-	-9
India	0	0	-16	-	-	-	8	-	-	-	8
Indonesia	-	0	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-33	0	-	-	-	2	-	-	-	2
Korea, South	-	0	-2	2	-	-	1	-	-	-	1
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	-	-	-	-	0	-	-	-	0
Mexico	-35	0	-2	0	-	-	-285	-3	-1	-	-289
Netherlands	-	0	-2	0	-	-	-54	-18	1	-	-70
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	0	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	0	-	-	-	0
Panama	-	-	-	-	-	-	-42	-2	-	-	-44
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	0	-	-	-	-18	-10	0	-	-28
Russia	-	-	-	-	-	-	0	-	1	-	1
Spain	-	-	-	-	-	-	-10	-9	-9	-	-28
Sweden	-	-	-1	-	-	-	0	-	1	-	1
Trinidad and Tobago	-	0	-	-	-	-	-	-	-	-	-
United Kingdom	-	0	-	-	-	-	0	-	0	-	0
Vietnam	-	-	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	0	-	-	-	-27	-	-9	-	-35
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-6	1	-4	0	14	-	-239	-29	-20	0	-291
<b>Total</b>	<b>-38</b>	<b>-26</b>	<b>-60</b>	<b>4</b>	<b>21</b>	<b>-</b>	<b>-941</b>	<b>-128</b>	<b>-17</b>	<b>3</b>	<b>-1,083</b>
<b>Persian Gulf<sup>2</sup></b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0</b>

See footnotes at end of table.



**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, September 2017**  
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
<b>OPEC</b> .....	<b>0</b>	<b>-</b>	<b>-</b>	<b>36</b>	<b>-</b>	<b>26</b>	<b>-</b>	<b>-</b>
Algeria .....	-	-	-	-	-	-	-	-
Angola .....	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	-	-	-14	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-
Iraq .....	0	-	-	3	-	-	-	-
Kuwait .....	-	-	-	-	-	0	-	-
Libya .....	-	-	-	-	-	13	-	-
Nigeria .....	-	-	-	-	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-
Saudi Arabia .....	-	-	-	10	-	-	-	-
United Arab Emirates .....	0	-	-	9	-	-	-	-
Venezuela .....	-	-	-	15	-	28	-	-
<b>Non-OPEC</b> .....	<b>7</b>	<b>0</b>	<b>-</b>	<b>46</b>	<b>16</b>	<b>-133</b>	<b>47</b>	<b>25</b>
Argentina .....	0	-	-	-	-	-	-	-
Aruba .....	-	-	-	-2	-	-	-	-
Australia .....	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-1	-	-22	-	-
Bahrain .....	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	-	-	-
Brazil .....	-	-	-	-	2	-15	-	-
Brunei .....	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-
Canada .....	0	0	-	5	6	3	3	3
Chad .....	-	-	-	-	-	-	-	-
China .....	0	-	-	15	-	-	-	-
Colombia .....	-	-	-	0	-	-	7	-
Denmark .....	-	-	-	-	-	-	-	-
Dominican Republic .....	-	-	-	-3	-	-	-	-
Estonia .....	-	-	-	-	-	-	-	-
Finland .....	-3	-	-	-	-	-	-	-
France .....	-	-	-	-	-	-	-	1
Germany .....	-	-	-	-	-	0	-	-
Guatemala .....	-	-	-	-1	-	-1	-	-
Honduras .....	-	-	-	-1	-	-6	-	-
India .....	-	-	-	31	-	-	-	-
Indonesia .....	-	-	-	-	-	-	-	-
Italy .....	-	-	-	-	-	-	-	-
Japan .....	10	-	-	16	2	-	4	-
Korea, South .....	-	-	-	67	3	-	-	-
Latvia .....	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-
Malaysia .....	-	-	-	-	-	-	-	-
Mexico .....	0	-	-	-51	-	5	9	-
Netherlands .....	0	-	-	-	-	-19	-	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	22
Oman .....	-	-	-	-	-	-	-	-
Panama .....	-	-	-	-19	-	-11	-	-
Portugal .....	-	-	-	-	-	-	-	-
Puerto Rico .....	0	-	-	0	-	0	-	-
Russia .....	-	-	-	-	-	34	2	-
Spain .....	-	-	-	-	-	-	-	-
Sweden .....	-	-	-	-	-	-	-	-
Trinidad and Tobago .....	-	-	-	0	-	0	-	-
United Kingdom .....	-	-	-	-	-	-8	0	-
Vietnam .....	-	-	-	-	-	-	-	-
Virgin Islands, U.S. ....	-	-	-	-	-	-23	-	-
Yemen .....	-	-	-	-	-	-	-	-
Other .....	0	0	-	-10	3	-70	22	-1
<b>Total</b> .....	<b>7</b>	<b>0</b>	<b>-</b>	<b>82</b>	<b>16</b>	<b>-107</b>	<b>47</b>	<b>25</b>
<b>Persian Gulf<sup>2</sup></b> .....	<b>0</b>	<b>-</b>	<b>-</b>	<b>22</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>-</b>

See footnotes at end of table.

**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, September 2017**  
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
<b>OPEC</b> .....	<b>0</b>	<b>-12</b>	<b>5</b>	<b>-2</b>	<b>0</b>	<b>176</b>	<b>2,746</b>
Algeria .....	—	—	—	0	—	90	145
Angola .....	—	—	—	0	—	11	171
Ecuador .....	0	-5	0	-2	—	-90	133
Equatorial Guinea .....	—	—	—	0	—	0	0
Gabon .....	—	—	—	—	—	—	—
Iran .....	—	—	—	—	—	—	—
Iraq .....	—	—	—	0	—	3	502
Kuwait .....	—	0	—	0	—	0	127
Libya .....	—	—	—	—	—	22	59
Nigeria .....	—	—	—	0	—	68	292
Qatar .....	—	—	—	0	—	0	0
Saudi Arabia .....	0	-5	—	0	—	5	671
United Arab Emirates .....	0	—	—	0	0	31	64
Venezuela .....	—	-2	5	0	—	37	582
<b>Non-OPEC</b> .....	<b>1</b>	<b>-444</b>	<b>9</b>	<b>-51</b>	<b>-1</b>	<b>-2,535</b>	<b>698</b>
Argentina .....	0	1	-3	-4	—	-44	-53
Aruba .....	—	—	0	0	—	-15	-15
Australia .....	0	-3	—	0	0	-3	-3
Bahamas .....	—	—	0	0	—	-27	-76
Bahrain .....	0	—	—	0	—	0	0
Belgium .....	0	-11	0	-12	0	35	35
Brazil .....	1	-37	0	-4	0	-417	-243
Brunei .....	—	—	—	0	—	0	0
Cameroon .....	—	—	—	0	—	0	0
Canada .....	0	-20	15	1	0	66	3,073
Chad .....	—	—	—	—	—	—	63
China .....	1	-30	0	-2	0	-174	-426
Colombia .....	0	—	-1	-3	0	-49	268
Denmark .....	—	—	—	0	—	11	32
Dominican Republic .....	0	—	-1	-1	—	-38	-38
Estonia .....	—	—	—	—	—	—	—
Finland .....	—	—	—	0	—	8	8
France .....	0	—	—	-3	—	-1	-55
Germany .....	0	0	0	-3	—	6	-13
Guatemala .....	0	—	0	-1	—	-57	-57
Honduras .....	—	-9	-1	0	—	-50	-50
India .....	0	-56	0	0	0	-32	-130
Indonesia .....	0	0	0	2	0	-8	23
Italy .....	0	-9	—	0	0	26	-33
Japan .....	0	-96	0	-1	0	-415	-434
Korea, South .....	0	-18	0	21	0	0	-150
Latvia .....	—	—	—	0	0	0	0
Lithuania .....	—	—	—	0	—	14	14
Malaysia .....	0	—	0	0	0	-6	-6
Mexico .....	0	-60	-5	-27	-1	-999	-625
Netherlands .....	0	0	0	-1	0	-93	-175
Netherlands Antilles .....	—	—	—	—	—	—	—
Norway .....	—	-2	—	0	—	56	104
Oman .....	—	—	—	0	—	0	35
Panama .....	—	—	-1	0	0	-145	-145
Portugal .....	—	-7	—	0	—	37	37
Puerto Rico .....	0	—	0	0	—	-29	-29
Russia .....	—	—	—	0	—	364	450
Spain .....	0	-17	7	0	—	6	-26
Sweden .....	0	—	—	0	—	11	11
Trinidad and Tobago .....	—	0	0	0	0	0	0
United Kingdom .....	0	-1	0	0	0	49	-26
Vietnam .....	0	—	—	0	0	0	15
Virgin Islands, U.S. ....	—	—	—	0	—	-67	-67
Yemen .....	—	—	—	0	—	0	0
Other .....	-1	-69	-1	-13	0	-555	-595
<b>Total</b> .....	<b>1</b>	<b>-456</b>	<b>15</b>	<b>-53</b>	<b>-1</b>	<b>-2,359</b>	<b>3,444</b>
<b>Persian Gulf<sup>2</sup></b> .....	<b>0</b>	<b>-5</b>	<b>—</b>	<b>0</b>	<b>0</b>	<b>38</b>	<b>1,364</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-September 2017**  
(Thousand Barrels per Day)

Country of Origin	Crude Oil <sup>1</sup>	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
<b>OPEC</b>	<b>3,225</b>	<b>-15</b>	<b>-</b>	<b>120</b>	<b>-</b>	<b>-41</b>	<b>-41</b>	<b>0</b>	<b>35</b>	<b>35</b>
Algeria	84	-	-	118	-	-	-	-	0	0
Angola	132	-	-	3	-	-	-	-	3	3
Ecuador	208	-14	-	-1	-	-23	-23	0	-2	-2
Equatorial Guinea	12	0	-	-	-	-	-	-	-	-
Gabon	3	-	-	2	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	589	-	-	4	-	-	-	-	-	-
Kuwait	158	0	-	-	-	0	0	-	0	0
Libya	42	0	-	6	-	-	-	-	-	-
Nigeria	282	-	-	5	-	-2	-2	-	20	20
Qatar	-	-	-	0	-	0	0	-	-	-
Saudi Arabia	1,033	0	-	2	-	0	0	0	-	0
United Arab Emirates	18	-1	-	9	-	0	0	0	-	0
Venezuela	664	0	-	-28	-	-16	-16	-	14	14
<b>Non-OPEC</b>	<b>3,810</b>	<b>-1,192</b>	<b>30</b>	<b>245</b>	<b>-</b>	<b>-598</b>	<b>-598</b>	<b>223</b>	<b>327</b>	<b>550</b>
Argentina	-5	0	-	-2	-	-5	-5	-	3	3
Aruba	-	-27	-	0	-	-1	-1	-	0	0
Australia	2	-16	-	0	-	0	0	0	0	0
Bahamas	-18	-1	-	-1	-	-5	-5	0	0	0
Bahrain	-	-	-	-	-	0	0	0	-	0
Belgium	-	-2	0	34	-	2	2	3	9	12
Brazil	201	-53	-	-11	-	-27	-27	-	2	2
Brunei	1	-	-	-	-	-	-	-	-	-
Cameroon	-	0	-	1	-	0	0	-	0	0
Canada	3,108	-125	26	-63	-	1	1	114	55	169
Chad	19	-	-	-	-	-	-	-	-	-
China	-182	-135	-	-8	-	0	0	0	0	0
Colombia	321	0	-	-38	-	-27	-27	-	7	7
Denmark	0	-	-	2	-	-1	-1	0	1	1
Dominican Republic	-5	-32	-	0	-	-11	-11	0	-1	-1
Estonia	-	-	-	0	-	-	-	-	0	0
Finland	-	-	-	0	-	0	0	0	9	9
France	-18	-11	-	3	-	0	0	17	10	27
Germany	-2	0	-	3	-	0	0	1	1	1
Guatemala	10	-11	-	0	-	-38	-38	-	-1	-1
Honduras	-	-11	-	0	-	-11	-11	-	-2	-2
India	-23	-54	-	13	-	0	0	2	63	65
Indonesia	9	-13	-	0	-	-	-	0	-	0
Italy	-33	-1	-	3	-	1	1	1	10	11
Japan	-28	-202	-	-9	-	-1	-1	0	2	2
Korea, South	-47	-97	-	-4	-	0	0	0	10	10
Latvia	-	-	-	-	-	-	-	-	0	0
Lithuania	-	-	-	0	-	-	-	-	4	4
Malaysia	-20	-	-	1	-	-2	-2	-	1	1
Mexico	572	-120	1	-15	-	-373	-373	0	-36	-36
Netherlands	-66	-39	-	-10	-	-2	-2	12	26	38
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	39	-25	-	24	-	1	1	5	9	13
Oman	4	-	-	-3	-	-	-	-	-	-
Panama	-4	-11	-	0	-	-25	-25	-	-1	-1
Portugal	-	-4	-	-	-	1	1	4	23	27
Puerto Rico	-	0	-	0	-	-1	-1	0	0	0
Russia	54	0	-	271	-	1	1	1	43	45
Spain	-14	-12	-	11	-	0	0	0	36	37
Sweden	-	1	-	5	-	1	1	0	4	4
Trinidad and Tobago	9	1	-	5	-	0	0	0	3	3
United Kingdom	-51	-38	-	4	-	5	5	62	26	88
Vietnam	2	-	-	0	-	-	-	0	0	0
Virgin Islands, U.S.	-	-4	-	-	-	-3	-3	-	-1	-1
Yemen	3	-	-	-	-	0	0	-	-	-
Other	-28	-150	3	29	-	-78	-78	1	12	13
<b>Total</b>	<b>7,035</b>	<b>-1,207</b>	<b>30</b>	<b>365</b>	<b>-</b>	<b>-639</b>	<b>-639</b>	<b>223</b>	<b>362</b>	<b>586</b>
<b>Persian Gulf<sup>2</sup></b>	<b>1,798</b>	<b>-1</b>	<b>-</b>	<b>15</b>	<b>-</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

See footnotes at end of table.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-September 2017**  
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
<b>OPEC</b>	<b>-5</b>	<b>0</b>	<b>-5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-35</b>	<b>-11</b>	<b>-4</b>	<b>-</b>	<b>-50</b>
Algeria	-	-	-	-	-	-	-1	-1	-1	-	-3
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	0	0	-	-	-	-24	-9	-1	-	-33
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	0	-	-	-	0
Kuwait	-	0	0	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-1	-	-	-	1	-	-	-	1
Qatar	-	-	0	-	-	-	0	-	-	-	0
Saudi Arabia	0	0	0	-	-	-	0	-	-	-	0
United Arab Emirates	-	0	-3	-	-	-	0	-	-	-	0
Venezuela	-5	0	0	-	-	-	-11	-1	-2	-	-15
<b>Non-OPEC</b>	<b>-25</b>	<b>-26</b>	<b>-78</b>	<b>23</b>	<b>14</b>	<b>-</b>	<b>-1,032</b>	<b>-107</b>	<b>-48</b>	<b>4</b>	<b>-1,183</b>
Argentina	1	0	0	25	-	-	-35	-3	-5	-	-42
Aruba	-	-	-	-	-	-	-5	-	-	-	-5
Australia	0	0	0	-	-	-	-1	-	0	-	-1
Bahamas	-	0	0	-	-	-	-4	0	-10	-	-15
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	1	0	0	0	-	-	-6	-1	-2	1	-8
Brazil	1	4	-26	0	-	-	-182	-14	1	-	-195
Brunei	-	-	-	-	-	-	0	-	-	-	0
Cameroon	-	-	-	0	-	-	-	-	-	-	-
Canada	-	0	-22	-1	1	-	71	-11	22	0	81
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	0	-	-	1	-	0	-	1
Colombia	-	0	-1	-	-	-	-20	-	0	-	-19
Denmark	-	-	-	-	-	-	0	0	-	-	-1
Dominican Republic	-	-	0	-	-	-	-8	-2	-1	-	-11
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-1	-	-	-	-1
France	-	0	0	-	-	-	-60	-1	-1	0	-63
Germany	1	0	0	0	-	-	-2	-	-	-	-2
Guatemala	-	0	0	-	-	-	-41	-12	-3	-	-56
Honduras	-	-	0	-	-	-	-9	-4	0	-	-14
India	0	0	-11	-	-	-	9	-	0	0	10
Indonesia	-	0	0	-	-	-	-	-	-	-	-
Italy	-	0	0	0	-	-	-4	0	-	-	-4
Japan	-	-30	0	-	-	-	1	-	-	-	1
Korea, South	0	0	-3	0	-	-	2	-	-3	-	-1
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	0	-	-	-	0	-	-8	-	-7
Mexico	-25	0	-2	0	-	-	-229	-3	-1	-	-233
Netherlands	3	0	-1	0	-	-	-84	-7	-3	-	-94
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	0	0	0	-	-	0	-	-	-	0
Oman	-	-	-1	-	-	-	0	-	-	-	0
Panama	-	0	0	0	-	-	-37	-6	-2	-	-45
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	-1	-	-	-	-3	-1	0	-	-4
Russia	-	0	-	-	-	-	0	0	2	1	3
Spain	-	-	0	0	-	-	-11	-1	-2	-	-14
Sweden	-	-	0	-	-	-	0	-	0	-	0
Trinidad and Tobago	-	0	0	0	-	-	0	-	1	-	1
United Kingdom	0	0	0	-	-	-	-36	0	-2	-	-38
Vietnam	-	0	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	0	-	-	-	-11	-1	-8	-	-20
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-7	0	-10	-1	13	-	-327	-40	-23	2	-387
<b>Total</b>	<b>-30</b>	<b>-26</b>	<b>-83</b>	<b>23</b>	<b>14</b>	<b>-</b>	<b>-1,066</b>	<b>-118</b>	<b>-52</b>	<b>4</b>	<b>-1,232</b>
<b>Persian Gulf<sup>2</sup></b>	<b>0</b>	<b>0</b>	<b>-3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0</b>

See footnotes at end of table.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-September 2017**  
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
<b>OPEC</b> .....	<b>0</b>	<b>-</b>	<b>-</b>	<b>15</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>-</b>
Algeria .....	-	-	-	-	-	1	1	-
Angola .....	-	-	-	-	-	-	-	-
Ecuador .....	-	-	-	0	-	-11	-	-
Equatorial Guinea .....	-	-	-	-	-	-	-	-
Gabon .....	-	-	-	-	-	-	-	-
Iran .....	-	-	-	-	-	-	-	-
Iraq .....	0	-	-	0	-	-	-	-
Kuwait .....	-	-	-	0	-	0	-	-
Libya .....	0	-	-	-	-	3	-	-
Nigeria .....	-	-	-	0	-	-	-	-
Qatar .....	-	-	-	-	-	-	-	-
Saudi Arabia .....	0	-	-	1	0	0	-	-
United Arab Emirates .....	0	-	-	1	-	-1	-	-
Venezuela .....	-	-	-	12	-	14	-	-
<b>Non-OPEC</b> .....	<b>-2</b>	<b>0</b>	<b>-</b>	<b>-54</b>	<b>14</b>	<b>-115</b>	<b>30</b>	<b>15</b>
Argentina .....	0	-	-	-2	-	2	-	1
Aruba .....	0	-	-	-1	-	-3	-1	-
Australia .....	-	-	-	-	-	-	-	-
Bahamas .....	-	-	-	-1	-	-12	-	-
Bahrain .....	-	-	-	-	-	-	-	-
Belgium .....	-	-	-	-	-	0	-	-
Brazil .....	0	-	-	-6	1	0	-	-
Brunei .....	-	-	-	-	-	-	-	-
Cameroon .....	-	-	-	-	-	-	-	-
Canada .....	-2	0	-	-19	5	-5	2	2
Chad .....	-	-	-	0	-	-	-	-
China .....	1	-	-	12	-	-6	-	-
Colombia .....	0	-	-	-3	-	7	5	-
Denmark .....	-	-	-	-2	-	-	-	-
Dominican Republic .....	0	-	-	-6	-	-1	-	-
Estonia .....	-	-	-	-	-	-	-	-
Finland .....	-1	-	-	-1	-	-	-	-
France .....	0	-	-	-3	0	1	0	1
Germany .....	0	-	-	-	0	0	0	-
Guatemala .....	0	-	-	-3	-	-4	-	-
Honduras .....	0	-	-	-2	-	-9	-	-
India .....	0	-	-	6	-	1	-	-
Indonesia .....	-	-	-	0	-	-	-	-
Italy .....	-	-	-	0	-	2	-	-
Japan .....	2	-	-	17	3	0	1	-
Korea, South .....	0	-	-	78	3	0	0	-
Latvia .....	-	-	-	-	-	-	-	-
Lithuania .....	-	-	-	-	-	-	-	-
Malaysia .....	0	-	-	0	-	-	-	-
Mexico .....	0	-	-	-40	1	22	10	-
Netherlands .....	0	0	-	-8	0	-6	1	-
Netherlands Antilles .....	-	-	-	-	-	-	-	-
Norway .....	-	-	-	-	-	-	-	10
Oman .....	-	-	-	-	-	-	-	-
Panama .....	0	-	-	-18	-	-15	-	-
Portugal .....	-	-	-	-	0	-	-	-
Puerto Rico .....	0	-	-	0	-	0	-	-
Russia .....	0	-	-	0	-	16	0	-
Spain .....	-	-	-	0	-	0	-	-
Sweden .....	-1	-	-	0	-	1	-	-
Trinidad and Tobago .....	0	-	-	0	-	15	-	-
United Kingdom .....	-	-	-	-2	-	-2	2	-
Vietnam .....	0	-	-	0	-	0	-	-
Virgin Islands, U.S. ....	0	-	-	-2	-	-10	-	-
Yemen .....	-	-	-	-	-	-	-	-
Other .....	-1	0	-	-48	1	-109	9	1
<b>Total</b> .....	<b>-2</b>	<b>0</b>	<b>-</b>	<b>-40</b>	<b>14</b>	<b>-109</b>	<b>31</b>	<b>15</b>
<b>Persian Gulf<sup>2</sup></b> .....	<b>0</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>0</b>	<b>-1</b>	<b>-</b>	<b>-</b>

See footnotes at end of table.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-September 2017**  
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
<b>OPEC</b>	<b>0</b>	<b>-8</b>	<b>4</b>	<b>-2</b>	<b>0</b>	<b>56</b>	<b>3,281</b>
Algeria	—	—	0	1	—	119	203
Angola	—	—	0	0	—	6	138
Ecuador	0	-4	0	-2	0	-90	117
Equatorial Guinea	—	—	—	0	—	0	12
Gabon	—	—	0	0	—	2	6
Iran	—	—	—	0	—	0	0
Iraq	—	—	0	0	—	4	593
Kuwait	0	0	0	0	0	0	158
Libya	—	—	—	0	—	9	51
Nigeria	—	—	—	-2	—	20	303
Qatar	0	0	—	4	—	4	4
Saudi Arabia	0	-2	0	0	0	1	1,034
United Arab Emirates	0	-1	0	0	0	4	21
Venezuela	0	0	4	-3	0	-23	641
<b>Non-OPEC</b>	<b>1</b>	<b>-567</b>	<b>19</b>	<b>-72</b>	<b>-1</b>	<b>-2,973</b>	<b>837</b>
Argentina	0	2	-1	-10	0	-29	-34
Aruba	—	—	0	0	—	-38	-38
Australia	0	-6	0	0	0	-24	-23
Bahamas	0	—	0	-2	0	-36	-54
Bahrain	0	—	—	2	—	2	2
Belgium	0	-6	0	-9	0	24	24
Brazil	0	-37	0	-8	0	-356	-155
Brunei	—	0	—	0	—	0	1
Cameroon	0	—	0	0	—	1	1
Canada	-1	-17	24	1	0	59	3,166
Chad	—	—	—	0	—	0	19
China	1	-54	0	-3	0	-192	-373
Colombia	0	1	0	-3	0	-72	249
Denmark	0	-2	0	-1	—	-2	-3
Dominican Republic	0	-2	-1	-1	0	-66	-71
Estonia	0	1	—	0	—	1	1
Finland	0	-1	0	0	0	6	6
France	0	-5	0	-2	0	-53	-71
Germany	0	-1	0	-2	0	-1	-3
Guatemala	0	-6	0	-1	—	-121	-111
Honduras	0	-6	0	0	—	-55	-55
India	0	-97	0	-3	0	-69	-92
Indonesia	0	0	0	2	0	-11	-1
Italy	0	-15	0	0	0	-4	-37
Japan	0	-57	0	-1	0	-272	-300
Korea, South	0	-21	0	13	0	-21	-68
Latvia	0	—	—	0	0	0	0
Lithuania	0	—	—	0	—	5	5
Malaysia	0	-3	1	0	0	-9	-29
Mexico	-1	-62	-3	-21	0	-897	-325
Netherlands	0	-6	0	-2	0	-127	-192
Netherlands Antilles	—	—	—	—	—	—	—
Norway	0	-3	0	0	0	20	59
Oman	0	-1	0	0	—	-5	-1
Panama	0	—	-1	-1	0	-117	-121
Portugal	0	-5	—	0	—	20	20
Puerto Rico	0	0	0	0	0	-6	-6
Russia	0	0	0	0	—	336	390
Spain	0	-21	4	0	0	5	-10
Sweden	0	0	—	0	0	12	12
Trinidad and Tobago	0	0	0	0	0	25	34
United Kingdom	0	-3	0	0	0	16	-35
Vietnam	0	-3	0	0	0	-3	-2
Virgin Islands, U.S.	—	—	0	0	—	-40	-40
Yemen	—	—	—	0	—	0	3
Other	2	-131	-4	-20	-1	-879	-905
<b>Total</b>	<b>1</b>	<b>-575</b>	<b>23</b>	<b>-74</b>	<b>-1</b>	<b>-2,917</b>	<b>4,118</b>
<b>Persian Gulf<sup>2</sup></b>	<b>0</b>	<b>-4</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>15</b>	<b>1,813</b>

— = No Data Reported.

<sup>1</sup> On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

<sup>2</sup> Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

**Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, September 2017**  
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
<b>Crude Oil</b> .....	<b>11,969</b>	<b>149,353</b>	<b>912,076</b>	<b>21,068</b>	<b>48,224</b>	<b>1,142,690</b>
Refinery .....	10,062	13,457	48,688	2,357	22,247	96,811
Tank Farms and Pipelines (Includes Cushing, OK) ....	1,907	135,896	189,748	18,711	22,389	368,651
Cushing, Oklahoma .....	—	62,801	—	—	—	62,801
Leases .....	—	—	—	—	—	—
Strategic Petroleum Reserve <sup>1</sup> .....	—	—	673,640	—	—	673,640
Alaskan In Transit .....	—	—	—	—	3,588	3,588
<b>Total Stocks, All Oils (excluding Crude Oil)<sup>2</sup></b> .....	<b>156,193</b>	<b>189,226</b>	<b>377,114</b>	<b>20,401</b>	<b>92,725</b>	<b>835,659</b>
Refinery .....	15,886	51,212	124,409	9,927	52,523	253,957
Bulk Terminal .....	112,404	102,098	196,649	6,592	34,642	452,385
Pipeline .....	27,641	34,224	51,267	3,740	4,978	121,850
Natural Gas Processing Plant .....	262	1,692	4,789	142	582	7,467
<b>Natural Gas Liquids</b> .....	<b>8,532</b>	<b>62,933</b>	<b>141,046</b>	<b>4,430</b>	<b>5,911</b>	<b>222,852</b>
Refinery .....	467	4,761	7,830	401	1,634	15,093
Bulk Terminal .....	7,085	41,660	113,714	2,034	3,684	168,177
Pipeline .....	718	14,820	14,713	1,853	11	32,115
Natural Gas Processing Plant .....	262	1,692	4,789	142	582	7,467
<b>Ethane</b> .....	<b>476</b>	<b>6,331</b>	<b>46,240</b>	<b>410</b>	<b>—</b>	<b>53,457</b>
Refinery .....	—	—	183	—	—	183
Bulk Terminal .....	241	3,491	39,914	—	—	43,646
Pipeline .....	235	2,566	5,101	408	—	8,310
Natural Gas Processing Plant .....	—	274	1,042	2	—	1,318
<b>Propane</b> .....	<b>5,403</b>	<b>25,628</b>	<b>36,849</b>	<b>1,509</b>	<b>2,170</b>	<b>71,559</b>
Refinery .....	120	1,844	1,110	54	92	3,220
Bulk Terminal .....	4,691	19,427	28,546	659	2,023	55,346
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	137	804	1,686	51	44	2,722
<b>Normal Butane</b> .....	<b>2,325</b>	<b>19,099</b>	<b>37,682</b>	<b>1,920</b>	<b>3,155</b>	<b>64,181</b>
Refinery .....	233	2,201	4,853	230	1,050	8,567
Bulk Terminal .....	2,035	15,657	29,897	1,365	1,656	50,610
Pipeline .....	6	985	1,540	288	—	2,819
Natural Gas Processing Plant .....	51	256	1,392	37	449	2,185
<b>Isobutane</b> .....	<b>138</b>	<b>2,297</b>	<b>7,031</b>	<b>261</b>	<b>531</b>	<b>10,258</b>
Refinery .....	114	494	1,209	102	489	2,408
Bulk Terminal .....	—	1,002	4,596	—	—	5,598
Pipeline .....	11	629	765	148	—	1,553
Natural Gas Processing Plant .....	13	172	461	11	42	699
<b>Natural Gasoline</b> .....	<b>190</b>	<b>9,578</b>	<b>13,244</b>	<b>330</b>	<b>55</b>	<b>23,397</b>
Refinery .....	—	222	475	15	3	715
Bulk Terminal .....	118	2,083	10,761	10	5	12,977
Pipeline .....	11	7,087	1,800	264	—	9,162
Natural Gas Processing Plant .....	61	186	208	41	47	543
<b>Refinery Olefins</b> .....	<b>344</b>	<b>1,398</b>	<b>5,055</b>	<b>21</b>	<b>75</b>	<b>6,893</b>
Refinery .....	344	1,385	1,877	21	75	3,702
Bulk Terminal .....	—	13	3,178	—	—	3,191
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	—	—	—	—	—	—
<b>Ethylene</b> .....	<b>—</b>	<b>—</b>	<b>0</b>	<b>—</b>	<b>—</b>	<b>0</b>
Refinery .....	—	—	0	—	—	0
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	—	—	—	—	—	—
<b>Propylene</b> .....	<b>142</b>	<b>694</b>	<b>4,371</b>	<b>7</b>	<b>20</b>	<b>5,234</b>
Refinery .....	142	681	1,193	7	20	2,043
Bulk Terminal .....	—	13	3,178	—	—	3,191
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	—	—	—	—	—	—
<b>Butylene</b> .....	<b>170</b>	<b>704</b>	<b>684</b>	<b>14</b>	<b>55</b>	<b>1,627</b>
Refinery .....	170	704	684	14	55	1,627
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	—	—	—	—	—	—
<b>Isobutylene</b> .....	<b>32</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>32</b>
Refinery .....	32	0	0	0	0	32
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	—	—
Natural Gas Processing Plant .....	—	—	—	—	—	—
<b>Other Hydrocarbons</b> .....	<b>—</b>	<b>17</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>17</b>
Refinery .....	—	17	—	—	—	17
<b>Oxygenates (excluding Fuel Ethanol)</b> .....	<b>—</b>	<b>7</b>	<b>1,405</b>	<b>—</b>	<b>—</b>	<b>1,412</b>
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	—	7	1,405	—	—	1,412
Pipeline .....	—	—	—	—	—	—

See footnotes at end of table.

**Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, September 2017**  
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
<b>MTBE</b> .....	—	—	1,251	—	—	1,251
Refinery .....	—	—	—	—	—	—
Bulk Terminal <sup>3</sup> .....	—	—	1,251	—	—	1,251
Pipeline .....	—	—	—	—	—	—
<b>Other Oxygenates<sup>4</sup></b> .....	—	7	154	—	—	161
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	—	7	154	—	—	161
Pipeline .....	—	—	—	—	—	—
<b>Renewable Fuels (including Fuel Ethanol)</b> .....	9,104	7,904	5,495	400	4,000	26,903
Refinery .....	182	148	355	117	241	1,043
Bulk Terminal .....	8,876	7,756	5,140	280	3,759	25,811
Pipeline .....	46	—	—	3	—	49
<b>Fuel Ethanol<sup>2</sup></b> .....	7,073	7,114	4,094	393	2,811	21,485
Refinery .....	178	108	175	113	31	605
Bulk Terminal .....	6,849	7,006	3,919	277	2,780	20,831
Pipeline .....	46	—	—	3	—	49
<b>Renewable Diesel Fuel</b> .....	2,031	790	1,393	7	1,165	5,386
Refinery .....	4	40	180	4	210	438
Bulk Terminal .....	2,027	750	1,213	3	955	4,948
Pipeline .....	—	—	—	—	—	—
<b>Other Renewable Fuels</b> .....	—	—	8	—	24	32
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	—	—	8	—	24	32
Pipeline .....	—	—	—	—	—	—
<b>Unfinished Oils</b> .....	4,892	14,327	45,801	2,989	21,163	89,172
<b>Naphthas and Lighter</b> .....	1,086	3,568	12,253	716	3,292	20,915
Refinery .....	1,086	3,516	11,045	716	3,210	19,573
Bulk Terminal .....	—	52	1,208	—	82	1,342
<b>Kerosene and Light Gas Oils</b> .....	587	2,368	7,376	591	3,888	14,810
Refinery .....	587	2,368	7,307	591	3,656	14,509
Bulk Terminal .....	—	—	69	—	232	301
<b>Heavy Gas Oils</b> .....	2,431	5,699	20,873	1,279	11,124	41,406
Refinery .....	2,208	5,634	17,970	1,279	10,509	37,600
Bulk Terminal .....	223	65	2,903	—	615	3,806
<b>Residuum</b> .....	788	2,692	5,299	403	2,859	12,041
Refinery .....	788	2,381	5,299	403	2,833	11,704
Bulk Terminal .....	—	311	—	—	26	337
<b>Motor Gasoline Blending Components<sup>2</sup></b> .....	54,643	44,273	70,715	5,397	27,016	202,044
Refinery .....	4,871	12,404	29,498	2,863	14,308	63,944
Bulk Terminal .....	38,496	23,459	23,976	1,742	10,444	98,117
Pipeline .....	11,276	8,410	17,241	792	2,264	39,983
<b>Reformulated - RBOB</b> .....	16,521	6,006	10,548	—	12,879	45,954
Refinery .....	1,581	1,124	1,690	—	5,220	9,615
Bulk Terminal .....	11,368	3,976	4,112	—	6,415	25,871
Pipeline .....	3,572	906	4,746	—	1,244	10,468
<b>Conventional</b> .....	38,122	38,267	60,167	5,397	14,137	156,090
Refinery .....	3,290	11,280	27,808	2,863	9,088	54,329
Bulk Terminal .....	27,128	19,483	19,864	1,742	4,029	72,246
Pipeline .....	7,704	7,504	12,495	792	1,020	29,515
<b>CBOB</b> .....	28,391	31,566	32,945	4,087	6,859	103,848
Refinery .....	531	5,469	12,025	1,554	2,155	21,734
Bulk Terminal .....	20,156	19,010	8,532	1,741	3,693	53,132
Pipeline .....	7,704	7,087	12,388	792	1,011	28,982
<b>GTAB</b> .....	575	—	—	—	—	575
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	575	—	—	—	—	575
Pipeline .....	—	—	—	—	—	—
<b>Other</b> .....	9,156	6,701	27,222	1,310	7,278	51,667
Refinery .....	2,759	5,811	15,783	1,309	6,933	32,595
Bulk Terminal .....	6,397	473	11,332	1	336	18,539
Pipeline .....	—	417	107	—	9	533
<b>Aviation Gasoline Blending Components</b> .....	—	—	11	—	—	11
Refinery .....	—	—	11	—	—	11
Bulk Terminal .....	—	—	—	—	—	—
<b>Finished Motor Gasoline</b> .....	4,162	6,079	7,799	1,497	2,228	21,765
Refinery .....	25	1,313	3,371	636	757	6,102
Bulk Terminal .....	1,352	2,464	2,288	629	1,340	8,073
Pipeline .....	2,785	2,302	2,140	232	131	7,590
<b>Reformulated</b> .....	24	—	—	—	19	43
Refinery .....	—	—	—	—	19	19
Bulk Terminal .....	24	—	—	—	—	24
Pipeline .....	—	—	—	—	—	—
<b>Reformulated (Blended with Fuel Ethanol)</b> .....	24	—	—	—	19	43
Refinery .....	—	—	—	—	19	19
Bulk Terminal .....	24	—	—	—	—	24
Pipeline .....	—	—	—	—	—	—

See footnotes at end of table.



**Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, September 2017**  
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
<b>Reformulated (Other)</b> .....	—	—	—	—	—	—
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	—	—
<b>Conventional</b> .....	<b>4,138</b>	<b>6,079</b>	<b>7,799</b>	<b>1,497</b>	<b>2,209</b>	<b>21,722</b>
Refinery .....	25	1,313	3,371	636	738	6,083
Bulk Terminal .....	1,328	2,464	2,288	629	1,340	8,049
Pipeline .....	2,785	2,302	2,140	232	131	7,590
<b>Conventional (Blended with Fuel Ethanol)</b> .....	<b>20</b>	<b>102</b>	—	<b>41</b>	—	<b>163</b>
Refinery .....	—	—	—	40	—	40
Bulk Terminal .....	20	102	—	1	—	123
Pipeline .....	—	—	—	—	—	—
<b>Ed55 and Lower</b> .....	<b>20</b>	<b>102</b>	—	<b>41</b>	—	<b>163</b>
Refinery .....	—	—	—	40	—	40
Bulk Terminal .....	20	102	—	1	—	123
Pipeline .....	—	—	—	—	—	—
<b>Greater than Ed55</b> .....	—	—	—	—	—	—
Refinery .....	—	—	—	—	—	—
Bulk Terminal .....	—	—	—	—	—	—
Pipeline .....	—	—	—	—	—	—
<b>Conventional (Other)</b> .....	<b>4,118</b>	<b>5,977</b>	<b>7,799</b>	<b>1,456</b>	<b>2,209</b>	<b>21,559</b>
Refinery .....	25	1,313	3,371	596	738	6,043
Bulk Terminal .....	1,308	2,362	2,288	628	1,340	7,926
Pipeline .....	2,785	2,302	2,140	232	131	7,590
<b>Finished Aviation Gasoline</b> .....	<b>134</b>	<b>150</b>	<b>386</b>	<b>9</b>	<b>240</b>	<b>919</b>
Refinery .....	—	57	318	9	148	532
Bulk Terminal .....	134	93	68	—	92	387
Pipeline .....	—	—	—	—	—	—
<b>Kerosene-Type Jet Fuel</b> .....	<b>11,015</b>	<b>7,365</b>	<b>13,804</b>	<b>781</b>	<b>10,355</b>	<b>43,320</b>
Refinery .....	563	1,872	5,962	339	3,957	12,693
Bulk Terminal .....	5,059	3,412	3,074	309	5,219	17,073
Pipeline .....	5,393	2,081	4,768	133	1,179	13,554
<b>Kerosene</b> .....	<b>1,471</b>	<b>106</b>	<b>125</b>	<b>1</b>	<b>4</b>	<b>1,707</b>
Refinery .....	192	84	108	1	3	388
Bulk Terminal .....	1,279	22	2	—	1	1,304
Pipeline .....	—	—	15	—	—	15
<b>Distillate Fuel Oil<sup>2</sup></b> .....	<b>46,988</b>	<b>30,745</b>	<b>43,807</b>	<b>3,426</b>	<b>12,495</b>	<b>137,461</b>
Refinery .....	2,394	7,001	14,183	1,543	5,443	30,564
Bulk Terminal .....	37,171	17,133	17,239	1,156	5,669	78,368
Pipeline .....	7,423	6,611	12,385	727	1,383	28,529
<b>15 ppm sulfur and Under</b> .....	<b>37,598</b>	<b>29,802</b>	<b>36,975</b>	<b>3,212</b>	<b>11,366</b>	<b>118,953</b>
Refinery .....	1,676	6,375	12,092	1,367	4,535	26,045
Bulk Terminal .....	29,804	17,068	14,295	1,120	5,543	67,830
Pipeline .....	6,118	6,359	10,588	725	1,288	25,078
<b>Greater than 15 ppm to 500 ppm sulfur</b> .....	<b>4,812</b>	<b>384</b>	<b>1,485</b>	<b>180</b>	<b>222</b>	<b>7,083</b>
Refinery .....	183	80	689	142	221	1,315
Bulk Terminal .....	4,356	52	554	36	1	4,999
Pipeline .....	273	252	242	2	—	769
<b>Greater than 500 ppm sulfur</b> .....	<b>4,578</b>	<b>559</b>	<b>5,347</b>	<b>34</b>	<b>907</b>	<b>11,425</b>
Refinery .....	535	546	1,402	34	687	3,204
Bulk Terminal .....	3,011	13	2,390	—	125	5,539
Pipeline .....	1,032	—	1,555	—	95	2,682
<b>Residual Fuel Oil<sup>5</sup></b> .....	<b>8,066</b>	<b>1,248</b>	<b>21,101</b>	<b>241</b>	<b>5,225</b>	<b>35,881</b>
Refinery .....	541	1,013	3,967	241	2,938	8,700
Bulk Terminal .....	7,525	235	17,134	—	2,281	27,175
Pipeline .....	—	—	—	—	6	6
<b>Less than 0.31% Sulfur</b> .....	<b>1,789</b>	<b>70</b>	<b>1,752</b>	<b>32</b>	<b>464</b>	<b>4,107</b>
Refinery .....	123	70	224	32	—	449
Bulk Terminal .....	1,666	—	1,528	—	464	3,658
<b>0.31% to 1.00% Sulfur</b> .....	<b>1,491</b>	<b>194</b>	<b>4,717</b>	<b>5</b>	<b>748</b>	<b>7,155</b>
Refinery .....	67	102	271	5	460	905
Bulk Terminal .....	1,424	92	4,446	—	288	6,250
<b>Greater than 1.00% Percent Sulfur</b> .....	<b>4,786</b>	<b>984</b>	<b>14,632</b>	<b>204</b>	<b>4,007</b>	<b>24,613</b>
Refinery .....	351	841	3,472	204	2,478	7,346
Bulk Terminal .....	4,435	143	11,160	—	1,529	17,267
<b>Petrochemical Feedstocks</b> .....	<b>87</b>	<b>619</b>	<b>2,272</b>	—	<b>3</b>	<b>2,981</b>
Refinery .....	87	619	2,272	—	3	2,981
Naphtha for Petrochemical Feedstock Use .....	87	476	1,394	—	3	1,960
Other Oils for Petrochemical Feedstock Use .....	—	143	878	—	—	1,021
<b>Special Naphthas</b> .....	<b>39</b>	<b>157</b>	<b>720</b>	—	<b>47</b>	<b>963</b>
Refinery .....	18	75	709	—	47	849
Bulk Terminal .....	21	82	11	—	—	114
<b>Lubricants</b> .....	<b>931</b>	<b>748</b>	<b>7,041</b>	—	<b>892</b>	<b>9,612</b>
Refinery .....	520	306	4,302	—	650	5,778
Bulk Terminal .....	411	442	2,739	—	242	3,834
<b>Waxes</b> .....	<b>485</b>	<b>50</b>	<b>215</b>	—	—	<b>750</b>
Refinery .....	485	50	215	—	—	750
<b>Petroleum Coke</b> .....	—	<b>1,397</b>	<b>5,316</b>	<b>85</b>	<b>1,503</b>	<b>8,301</b>
Refinery .....	—	1,397	5,316	85	1,503	8,301
<b>Asphalt and Road Oil</b> .....	<b>5,280</b>	<b>9,590</b>	<b>4,663</b>	<b>1,110</b>	<b>1,465</b>	<b>22,108</b>
Refinery .....	508	4,698	2,162	668	509	8,545
Bulk Terminal .....	4,772	4,892	2,501	442	956	13,563

**Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, September 2017**  
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components <sup>1</sup>			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
<b>PAD District 1</b> .....	<b>24</b>	<b>1,353</b>	<b>1,377</b>	<b>12,949</b>	<b>30,418</b>	<b>43,367</b>	<b>1,471</b>
Connecticut .....	—	—	—	930	15	945	172
Delaware .....	—	—	—	777	435	1,212	183
District of Columbia .....	—	—	—	—	—	—	—
Florida .....	—	488	488	—	7,734	7,734	—
Georgia .....	—	256	256	—	2,464	2,464	—
Maine .....	—	—	—	275	287	562	103
Maryland .....	—	—	—	941	59	1,000	42
Massachusetts .....	5	—	5	1,229	—	1,229	31
New Hampshire .....	—	—	—	—	—	—	5
New Jersey .....	—	120	120	5,085	8,370	13,455	80
New York .....	19	—	19	762	1,831	2,593	445
North Carolina .....	—	141	141	—	2,705	2,705	236
Pennsylvania .....	—	23	23	962	3,949	4,911	99
Rhode Island .....	—	—	—	690	—	690	—
South Carolina .....	—	166	166	—	1,491	1,491	28
Vermont .....	—	20	20	—	—	—	2
Virginia .....	—	113	113	1,298	942	2,240	45
West Virginia .....	—	26	26	—	136	136	—
<b>PAD District 2</b> .....	<b>—</b>	<b>3,777</b>	<b>3,777</b>	<b>5,100</b>	<b>30,763</b>	<b>35,863</b>	<b>106</b>
Illinois .....	—	349	349	2,666	4,444	7,110	84
Indiana .....	—	293	293	898	4,633	5,531	—
Iowa .....	—	130	130	—	1,329	1,329	—
Kansas .....	—	237	237	—	2,900	2,900	16
Kentucky .....	—	333	333	322	1,009	1,331	6
Michigan .....	—	186	186	115	3,016	3,131	—
Minnesota .....	—	337	337	65	2,414	2,479	—
Missouri .....	—	136	136	334	534	868	—
Nebraska .....	—	83	83	—	670	670	—
North Dakota .....	—	35	35	—	928	928	—
Ohio .....	—	868	868	26	3,502	3,528	—
Oklahoma .....	—	391	391	—	2,215	2,215	—
South Dakota .....	—	74	74	—	385	385	—
Tennessee .....	—	179	179	—	1,862	1,862	—
Wisconsin .....	—	146	146	674	922	1,596	—
<b>PAD District 3</b> .....	<b>—</b>	<b>5,659</b>	<b>5,659</b>	<b>5,802</b>	<b>47,672</b>	<b>53,474</b>	<b>110</b>
Alabama .....	—	146	146	—	1,447	1,447	4
Arkansas .....	—	175	175	—	935	935	—
Louisiana .....	—	1,214	1,214	304	12,200	12,504	67
Mississippi .....	—	792	792	32	1,957	1,989	—
New Mexico .....	—	118	118	—	626	626	—
Texas .....	—	3,214	3,214	5,466	30,507	35,973	39
<b>PAD District 4</b> .....	<b>—</b>	<b>1,265</b>	<b>1,265</b>	<b>—</b>	<b>4,605</b>	<b>4,605</b>	<b>1</b>
Colorado .....	—	180	180	—	1,374	1,374	—
Idaho .....	—	295	295	—	138	138	—
Montana .....	—	407	407	—	1,130	1,130	—
Utah .....	—	79	79	—	1,263	1,263	1
Wyoming .....	—	304	304	—	700	700	—
<b>PAD District 5</b> .....	<b>19</b>	<b>2,078</b>	<b>2,097</b>	<b>11,635</b>	<b>13,117</b>	<b>24,752</b>	<b>4</b>
Alaska .....	—	850	850	—	—	—	1
Arizona .....	—	82	82	763	377	1,140	—
California .....	19	343	362	10,550	7,113	17,663	3
Hawaii .....	—	1	1	—	1,023	1,023	—
Nevada .....	—	220	220	16	398	414	—
Oregon .....	—	67	67	—	1,147	1,147	—
Washington .....	—	515	515	306	3,059	3,365	—
<b>U.S. Total</b> .....	<b>43</b>	<b>14,132</b>	<b>14,175</b>	<b>35,486</b>	<b>126,575</b>	<b>162,061</b>	<b>1,692</b>

See footnotes at end of table.

**Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, September 2017**  
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil <sup>1</sup>				Residual Fuel Oil	Propane
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
<b>PAD District 1</b> .....	<b>31,480</b>	<b>4,539</b>	<b>3,546</b>	<b>39,565</b>	<b>8,066</b>	<b>4,948</b>
Connecticut .....	1,681	1,811	210	3,702	7	—
Delaware .....	419	45	86	550	327	15
District of Columbia .....	—	—	—	—	—	—
Florida .....	1,980	44	—	2,024	1,259	29
Georgia .....	1,254	—	—	1,254	337	12
Maine .....	845	1	618	1,464	89	—
Maryland .....	3,199	264	—	3,463	412	4
Massachusetts .....	663	685	108	1,456	137	—
New Hampshire .....	387	—	265	652	27	490
New Jersey .....	9,204	356	842	10,402	3,236	87
New York .....	5,035	161	416	5,612	1,034	1,599
North Carolina .....	1,104	—	7	1,111	—	411
Pennsylvania .....	3,335	156	614	4,105	499	1,431
Rhode Island .....	331	776	—	1,107	—	—
South Carolina .....	717	—	—	717	263	761
Vermont .....	18	—	7	25	—	—
Virginia .....	1,228	200	373	1,801	439	5
West Virginia .....	80	40	—	120	—	104
<b>PAD District 2</b> .....	<b>23,443</b>	<b>132</b>	<b>559</b>	<b>24,134</b>	<b>1,248</b>	<b>22,075</b>
Illinois .....	3,261	—	—	3,261	522	1,031
Indiana .....	3,839	—	110	3,949	73	277
Iowa .....	1,983	1	—	1,984	2	497
Kansas .....	1,851	—	—	1,851	32	12,328
Kentucky .....	594	—	3	597	185	277
Michigan .....	1,627	39	—	1,666	93	5,985
Minnesota .....	1,658	—	107	1,765	64	382
Missouri .....	504	12	8	524	—	200
Nebraska .....	1,108	—	—	1,108	—	369
North Dakota .....	961	1	—	962	26	64
Ohio .....	2,068	—	91	2,159	116	545
Oklahoma .....	1,340	26	142	1,508	14	50
South Dakota .....	604	—	—	604	—	26
Tennessee .....	891	—	—	891	73	2
Wisconsin .....	1,154	53	98	1,305	48	42
<b>PAD District 3</b> .....	<b>26,387</b>	<b>1,243</b>	<b>3,792</b>	<b>31,422</b>	<b>21,101</b>	<b>31,342</b>
Alabama .....	803	5	43	851	374	34
Arkansas .....	437	—	19	456	—	33
Louisiana .....	4,652	831	958	6,441	8,056	1,559
Mississippi .....	786	183	195	1,164	43	4,145
New Mexico .....	297	—	—	297	68	3
Texas .....	19,412	224	2,577	22,213	12,560	25,568
<b>PAD District 4</b> .....	<b>2,487</b>	<b>178</b>	<b>34</b>	<b>2,699</b>	<b>241</b>	<b>764</b>
Colorado .....	540	—	—	540	5	19
Idaho .....	234	—	—	234	—	—
Montana .....	775	74	—	849	108	25
Utah .....	499	38	34	571	53	673
Wyoming .....	439	66	—	505	75	47
<b>PAD District 5</b> .....	<b>10,078</b>	<b>222</b>	<b>812</b>	<b>11,112</b>	<b>5,219</b>	<b>2,159</b>
Alaska .....	1,049	—	85	1,134	580	6
Arizona .....	548	—	—	548	—	1,383
California .....	5,137	221	365	5,723	3,031	509
Hawaii .....	257	1	360	618	722	71
Nevada .....	282	—	2	284	—	—
Oregon .....	886	—	—	886	7	—
Washington .....	1,919	—	—	1,919	879	190
<b>U.S. Total</b> .....	<b>93,875</b>	<b>6,314</b>	<b>8,743</b>	<b>108,932</b>	<b>35,875</b>	<b>61,288</b>

— = No Data Reported.

<sup>1</sup> Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Note: Stocks are reported as of the last day of the month.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

**Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail <sup>1</sup> Between PAD Districts, September 2017**  
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
<b>Crude Oil</b> .....	<b>180</b>	<b>74</b>	<b>0</b>	<b>782</b>	<b>41,070</b>	<b>6,271</b>	<b>4,073</b>	<b>432</b>	<b>32,264</b>
<b>Petroleum Products</b> .....	<b>13,228</b>	<b>667</b>	<b>0</b>	<b>15,963</b>	<b>29,985</b>	<b>6,624</b>	<b>4,963</b>	<b>84,883</b>	<b>15,221</b>
Natural Gas Liquids .....	4,035	345	0	2,686	19,356	3,565	633	1,456	6,078
Ethane .....	3,820	0	—	45	9,295	607	—	0	523
Propane .....	72	345	0	1,962	6,778	1,639	240	1,456	1,011
Normal Butane .....	37	0	0	457	1,623	695	259	0	318
Isobutane .....	95	0	0	222	607	252	134	0	625
Natural Gasoline .....	11	0	—	0	1,053	372	—	0	3,601
Refinery Olefins .....	0	0	—	393	303	—	—	0	0
Ethylene .....	—	—	—	—	—	—	—	—	—
Propylene .....	0	0	—	393	303	—	—	0	0
Butylene .....	—	—	—	—	—	—	—	—	—
Isobutylene .....	—	—	—	—	—	—	—	—	—
Unfinished Oils .....	17	0	—	0	792	—	—	0	416
Motor Gasoline Blending Components .....	6,233	322	0	558	1,681	1,241	0	46,499	3,697
Reformulated - RBOB .....	0	0	0	60	271	—	0	6,206	905
Conventional .....	6,233	322	0	498	1,410	1,241	0	40,293	2,792
CBOB .....	6,233	322	0	498	1,211	1,241	0	40,174	2,490
GTAB .....	—	—	—	—	—	—	—	—	—
Other .....	0	0	0	0	199	—	0	119	302
Renewable Fuels .....	0	0	0	9,925	5,404	247	4,000	409	23
Fuel Ethanol .....	0	0	0	9,812	5,173	182	3,927	409	0
Renewable Diesel Fuel .....	0	0	0	113	231	66	72	0	23
Other Renewable Fuels .....	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline .....	126	0	0	433	285	139	0	4,359	387
Reformulated .....	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	126	0	0	433	285	139	0	4,359	387
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—	—	—	—
Conventional Other .....	126	0	0	433	285	139	0	4,359	387
Finished Aviation Gasoline .....	0	0	—	0	49	—	—	1,374	0
Kerosene-Type Jet Fuel .....	232	0	0	111	31	821	0	10,738	1,644
Kerosene .....	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil .....	2,531	0	0	520	787	611	0	18,892	2,417
15 ppm sulfur and under .....	2,531	0	0	520	787	611	0	17,379	2,229
Greater than 15 ppm to 500 ppm sulfur .....	0	0	—	0	0	—	—	828	113
Greater than 500 ppm sulfur .....	0	0	—	0	0	—	—	685	75
Residual Fuel Oil .....	0	0	—	0	881	—	—	340	78
Petrochemical Feedstocks .....	19	0	—	0	81	—	—	0	0
Naphtha for Petrochemical Feedstock Use .....	0	0	—	—	81	—	—	—	0
Other Oils for Petrochemical Feedstock Use .....	19	—	—	0	—	—	—	0	0
Special Naphthas .....	—	—	—	—	—	—	—	—	—
Lubricants .....	0	0	—	0	0	—	—	368	186
Waxes .....	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke .....	0	0	0	549	335	0	73	0	78
Asphalt and Road Oil .....	35	0	0	787	0	0	257	448	197
Miscellaneous Products .....	0	0	—	—	0	—	—	—	19
<b>Total</b> .....	<b>13,408</b>	<b>741</b>	<b>0</b>	<b>16,745</b>	<b>71,055</b>	<b>12,895</b>	<b>9,036</b>	<b>85,315</b>	<b>47,485</b>

See footnotes at end of table.

**Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail <sup>1</sup> Between PAD Districts, September 2017**  
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to		
	4	5	1	2	3	5	1	3	4
<b>Crude Oil</b> .....	0	18	0	19,501	473	206	0	0	0
<b>Petroleum Products</b> .....	0	5,344	19	10,319	7,500	2,272	0	0	0
Natural Gas Liquids .....	0	0	0	8,050	7,302	153	0	0	0
Ethane .....	0	—	0	1,866	2,389	—	0	0	0
Propane .....	0	0	0	3,217	2,478	100	0	0	0
Normal Butane .....	0	0	0	1,334	894	30	0	0	0
Isobutane .....	0	0	0	618	519	23	0	0	0
Natural Gasoline .....	0	—	0	1,015	1,022	—	0	0	0
Refinery Olefins .....	—	—	0	0	0	—	0	0	—
Ethylene .....	—	—	—	—	—	—	—	—	—
Propylene .....	—	—	0	0	0	—	0	0	—
Butylene .....	—	—	—	—	—	—	—	—	—
Isobutylene .....	—	—	—	—	—	—	—	—	—
Unfinished Oils .....	—	—	0	0	0	—	0	0	—
Motor Gasoline Blending Components .....	0	3,972	0	592	0	959	0	0	0
Reformulated - RBOB .....	—	2,626	0	0	0	0	0	0	—
Conventional .....	0	1,346	0	592	0	959	0	0	0
CBOB .....	0	1,298	0	592	0	959	0	0	0
GTAB .....	—	—	—	—	—	—	—	—	—
Other .....	—	48	0	0	0	0	0	0	—
Renewable Fuels .....	0	442	0	0	0	27	0	0	0
Fuel Ethanol .....	0	339	0	0	0	27	0	0	0
Renewable Diesel Fuel .....	0	103	0	0	0	0	0	0	0
Other Renewable Fuels .....	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline .....	0	0	0	378	0	322	0	0	0
Reformulated .....	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	0	0	0	378	0	322	0	0	0
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—	—	—	—
Conventional Other .....	0	0	0	378	0	322	0	0	0
Finished Aviation Gasoline .....	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel .....	0	125	0	36	0	9	0	0	0
Kerosene .....	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil .....	0	725	0	825	0	322	0	0	0
15 ppm sulfur and under .....	0	725	0	825	0	322	0	0	0
Greater than 15 ppm to 500 ppm sulfur .....	—	—	0	0	0	—	0	0	—
Greater than 500 ppm sulfur .....	—	—	0	0	0	—	0	0	—
Residual Fuel Oil .....	—	—	0	0	0	—	0	0	—
Petrochemical Feedstocks .....	—	—	0	0	0	—	0	0	—
Naphtha for Petrochemical Feedstock Use .....	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use .....	—	—	0	0	—	—	0	—	—
Special Naphthas .....	—	—	—	—	—	—	—	—	—
Lubricants .....	—	—	0	0	0	—	0	0	—
Waxes .....	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke .....	0	0	0	153	81	74	0	0	0
Asphalt and Road Oil .....	0	80	19	285	116	405	0	0	0
Miscellaneous Products .....	—	—	—	0	0	—	—	0	—
<b>Total</b> .....	0	5,361	19	29,820	7,973	2,477	0	0	0

— = No Data Reported.

<sup>1</sup> Movements of crude oil, fuel ethanol and biodiesel include movements by rail. Movements of other products are by pipeline, tanker and barge only.

Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, September 2017**  
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
<b>Crude Oil<sup>1</sup></b> .....	<b>15</b>	<b>74</b>	<b>190</b>	<b>40,604</b>	<b>6,271</b>	<b>149</b>	<b>32,264</b>	<b>0</b>	<b>-</b>
<b>Petroleum Products<sup>2</sup></b> .....	<b>12,937</b>	<b>0</b>	<b>1,766</b>	<b>20,748</b>	<b>6,377</b>	<b>66,643</b>	<b>13,661</b>	<b>0</b>	<b>4,774</b>
Natural Gas Liquids .....	3,893	0	946	18,351	3,565	1,385	5,948	0	-
Ethane .....	3,820	0	45	9,295	607	0	523	0	-
Propane .....	44	0	901	5,818	1,639	1,385	923	0	-
Normal Butane .....	5	0	0	1,595	695	0	316	0	-
Isobutane .....	13	0	0	590	252	0	585	0	-
Natural Gasoline .....	11	0	0	1,053	372	0	3,601	0	-
Motor Gasoline Blending Components .....	6,179	0	101	1,482	1,241	37,683	3,594	0	3,924
Reformulated - RBOB .....	0	0	0	271	-	6,206	905	-	2,626
Conventional .....	6,179	0	101	1,211	1,241	31,477	2,689	0	1,298
CBOB .....	6,179	0	101	1,211	1,241	31,477	2,490	0	1,298
GTAB .....	-	-	-	-	-	-	-	-	-
Other .....	0	0	-	0	-	-	199	-	-
Renewable Fuels .....	-	-	-	-	-	-	-	-	-
Fuel Ethanol .....	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel .....	-	-	-	-	-	-	-	-	-
Other Renewable Fuels .....	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline .....	126	0	407	121	139	2,428	313	0	0
Reformulated .....	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol .....	-	-	-	-	-	-	-	-	-
Reformulated Other .....	-	-	-	-	-	-	-	-	-
Conventional .....	126	0	407	121	139	2,428	313	0	0
Conventional Blended with Fuel Ethanol .....	-	-	-	-	-	-	-	-	-
Ed55 and Lower .....	-	-	-	-	-	-	-	-	-
Greater than Ed55 .....	-	-	-	-	-	-	-	-	-
Conventional Other .....	126	0	407	121	139	2,428	313	0	0
Finished Aviation Gasoline .....	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel .....	232	0	111	31	821	9,208	1,644	0	125
Kerosene .....	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil .....	2,507	0	201	763	611	15,939	2,162	0	725
15 ppm sulfur and under .....	2,507	0	201	763	611	14,426	2,049	0	725
Greater than 15 ppm to 500 ppm sulfur .....	0	0	0	0	-	828	113	-	-
Greater than 500 ppm sulfur .....	-	0	0	0	-	685	-	-	-
Residual Fuel Oil .....	-	-	-	-	-	-	-	-	-
Miscellaneous Products .....	-	-	-	-	-	-	-	-	-
<b>Total</b> .....	<b>12,952</b>	<b>74</b>	<b>1,956</b>	<b>61,352</b>	<b>12,648</b>	<b>66,792</b>	<b>45,925</b>	<b>0</b>	<b>4,774</b>

See footnotes at end of table.

**Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, September 2017**  
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
<b>Crude Oil<sup>1</sup></b> .....	<b>0</b>	<b>19,501</b>	<b>325</b>	<b>—</b>	<b>0</b>	<b>0</b>
<b>Petroleum Products<sup>2</sup></b> .....	<b>0</b>	<b>9,881</b>	<b>7,302</b>	<b>1,612</b>	<b>0</b>	<b>0</b>
Natural Gas Liquids .....	0	8,050	7,302	—	0	0
Ethane .....	0	1,866	2,389	—	0	0
Propane .....	0	3,217	2,478	—	0	0
Normal Butane .....	0	1,334	894	—	0	0
Isobutane .....	0	618	519	—	0	0
Natural Gasoline .....	0	1,015	1,022	—	0	0
Motor Gasoline Blending Components .....	0	592	0	959	0	0
Reformulated - RBOB .....	0	0	0	0	0	—
Conventional .....	0	592	0	959	0	0
CBOB .....	0	592	0	959	0	0
GTAB .....	—	—	—	—	—	—
Other .....	—	0	0	—	0	—
Renewable Fuels .....	—	—	—	—	—	—
Fuel Ethanol .....	—	—	—	—	—	—
Renewable Diesel Fuel .....	—	—	—	—	—	—
Other Renewable Fuels .....	—	—	—	—	—	—
Finished Motor Gasoline .....	0	378	0	322	0	0
Reformulated .....	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—
Conventional .....	0	378	0	322	0	0
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—
Conventional Other .....	0	378	0	322	0	0
Finished Aviation Gasoline .....	—	—	—	—	—	—
Kerosene-Type Jet Fuel .....	0	36	0	9	0	0
Kerosene .....	—	—	—	—	—	—
Distillate Fuel Oil .....	0	825	0	322	0	0
15 ppm sulfur and under .....	0	825	0	322	0	0
Greater than 15 ppm to 500 ppm sulfur .....	0	0	0	—	0	—
Greater than 500 ppm sulfur .....	0	—	0	—	0	—
Residual Fuel Oil .....	—	—	—	—	—	—
Miscellaneous Products .....	—	—	—	—	—	—
<b>Total</b> .....	<b>0</b>	<b>29,382</b>	<b>7,627</b>	<b>1,612</b>	<b>0</b>	<b>0</b>

— = No Data Reported.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report."

<sup>1</sup> Movements of crude oil, fuel ethanol and biodiesel include movements by rail. Movements of other products are by pipeline, tanker and barge only.

<sup>2</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

**Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, September 2017**  
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
<b>Crude Oil<sup>1</sup></b> .....	<b>165</b>	<b>0</b>	<b>—</b>	<b>329</b>	<b>466</b>	<b>—</b>
<b>Petroleum Products<sup>2</sup></b> .....	<b>114</b>	<b>322</b>	<b>0</b>	<b>880</b>	<b>2,750</b>	<b>0</b>
Natural Gas Liquids .....	—	0	—	0	0	—
Ethane .....	—	—	—	—	—	—
Propane .....	—	0	—	0	0	—
Normal Butane .....	—	—	—	—	—	—
Isobutane .....	—	—	—	—	—	—
Natural Gasoline .....	—	—	—	—	—	—
Unfinished Oils .....	17	0	—	0	792	—
Motor Gasoline Blending Components .....	54	322	0	457	199	0
Reformulated - RBOB .....	0	—	—	60	—	—
Conventional .....	54	322	0	397	199	0
CBOB .....	54	322	—	397	0	—
GTAB .....	—	—	—	—	—	—
Other .....	0	0	0	0	199	0
Renewable Fuels .....	0	0	0	0	560	0
Fuel Ethanol .....	0	0	—	0	560	—
Renewable Diesel Fuel .....	—	0	0	—	0	0
Other Renewable Fuels .....	—	—	—	—	—	—
Finished Motor Gasoline .....	0	0	—	26	164	—
Reformulated .....	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—
Conventional .....	0	0	—	26	164	—
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—
Conventional Other .....	0	0	—	26	164	—
Finished Aviation Gasoline .....	0	0	—	0	49	—
Kerosene-Type Jet Fuel .....	—	0	—	0	0	—
Kerosene .....	—	—	—	—	—	—
Distillate Fuel Oil .....	24	0	—	319	24	—
15 ppm sulfur and under .....	24	0	—	319	24	—
Greater than 15 ppm to 500 ppm sulfur .....	—	—	—	—	—	—
Greater than 500 ppm sulfur .....	0	0	—	—	0	—
Residual Fuel Oil .....	0	0	—	0	881	—
Less than 0.31 percent sulfur .....	0	0	—	—	31	—
0.31 to 1.00 percent sulfur .....	—	—	—	—	—	—
Greater than 1.00 percent sulfur .....	0	0	—	0	850	—
Petrochemical Feedstocks .....	19	0	—	0	81	—
Naphtha for Petrochemical Feedstock Use .....	0	0	—	—	81	—
Other Oils for Petrochemical Feedstock Use .....	19	—	—	0	—	—
Special Naphthas .....	—	—	—	—	—	—
Lubricants .....	0	0	—	0	0	—
Waxes .....	—	—	—	—	—	—
Marketable Petroleum Coke .....	—	—	—	—	—	—
Asphalt and Road Oil .....	0	0	—	78	0	—
Miscellaneous Products .....	0	0	—	—	0	—
<b>Total</b> .....	<b>279</b>	<b>322</b>	<b>0</b>	<b>1,209</b>	<b>3,216</b>	<b>0</b>

See footnotes at end of table.



**Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, September 2017**  
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
<b>Crude Oil<sup>1</sup></b> .....	<b>283</b>	—	<b>283</b>	—	<b>0</b>	—	<b>0</b>	<b>0</b>	<b>0</b>
<b>Petroleum Products<sup>2</sup></b> .....	<b>18,033</b>	—	<b>270</b>	<b>17,763</b>	<b>1,268</b>	<b>151</b>	<b>0</b>	<b>0</b>	<b>0</b>
Natural Gas Liquids .....	44	—	—	44	—	—	0	—	0
Ethane .....	—	—	—	—	—	—	—	—	—
Propane .....	44	—	—	44	—	—	0	—	0
Normal Butane .....	—	—	—	—	—	—	—	—	—
Isobutane .....	—	—	—	—	—	—	—	—	—
Natural Gasoline .....	—	—	—	—	—	—	—	—	—
Unfinished Oils .....	0	—	—	—	416	—	0	0	0
Motor Gasoline Blending Components .....	8,816	—	119	8,697	103	48	0	0	0
Reformulated - RBOB .....	0	—	—	—	0	—	0	0	—
Conventional .....	8,816	—	119	8,697	103	48	0	0	0
CBOB .....	8,697	—	—	8,697	0	—	0	0	0
GTAB .....	—	—	—	—	—	—	—	—	—
Other .....	119	—	119	—	103	48	0	0	0
Renewable Fuels .....	409	—	—	409	0	103	0	0	0
Fuel Ethanol .....	409	—	—	409	0	—	0	0	0
Renewable Diesel Fuel .....	—	—	—	—	—	103	—	—	0
Other Renewable Fuels .....	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline .....	1,931	—	—	1,931	74	—	0	0	0
Reformulated .....	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Reformulated Other .....	—	—	—	—	—	—	—	—	—
Conventional .....	1,931	—	—	1,931	74	—	0	0	0
Conventional Blended with Fuel Ethanol .....	—	—	—	—	—	—	—	—	—
Ed55 and Lower .....	—	—	—	—	—	—	—	—	—
Greater than Ed55 .....	—	—	—	—	—	—	—	—	—
Conventional Other .....	1,931	—	—	1,931	74	—	0	0	0
Finished Aviation Gasoline .....	1,374	—	—	1,374	0	—	0	0	0
Kerosene-Type Jet Fuel .....	1,530	—	—	1,530	—	—	0	—	0
Kerosene .....	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil .....	2,953	—	—	2,953	255	—	0	0	0
15 ppm sulfur and under .....	2,953	—	—	2,953	180	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur .....	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur .....	—	—	—	—	75	—	—	0	0
Residual Fuel Oil .....	340	—	—	340	78	—	0	0	0
Less than 0.31 percent sulfur .....	—	—	—	—	0	—	—	0	0
0.31 to 1.00 percent sulfur .....	—	—	—	—	—	—	—	—	—
Greater than 1.00 percent sulfur .....	340	—	—	340	78	—	0	0	0
Petrochemical Feedstocks .....	0	—	—	—	0	—	0	0	0
Naphtha for Petrochemical Feedstock Use .....	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use .....	0	—	—	—	0	—	0	0	—
Special Naphthas .....	—	—	—	—	—	—	—	—	—
Lubricants .....	368	—	151	217	186	—	0	0	0
Waxes .....	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke .....	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil .....	268	—	—	268	137	—	0	0	0
Miscellaneous Products .....	—	—	—	—	19	—	—	0	0
<b>Total</b> .....	<b>18,316</b>	—	<b>553</b>	<b>17,763</b>	<b>1,268</b>	<b>151</b>	<b>0</b>	<b>0</b>	<b>0</b>

— = No Data Reported.

Sources: Energy Information Administration (EIA) Form EIA-817, "Monthly Tanker and Barge Movements Report."

<sup>1</sup> Movements of crude oil, fuel ethanol and biodiesel include movements by rail. Movements of other products are by pipeline, tanker and barge only.

<sup>2</sup> Renewable diesel fuel includes biodiesel and other renewable diesel.

**Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, September 2017**  
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil .....	0	0	0	0	263	0	0	4,073
Propane .....	28	345	0	0	1,061	960	0	240
Propylene .....	0	0	–	–	393	303	–	–
Normal Butane .....	32	0	0	0	457	28	0	259
Isobutane .....	82	0	0	0	222	17	0	134
Fuel Ethanol .....	0	0	0	0	9,812	4,613	182	3,927
Biodiesel .....	0	0	0	0	113	231	66	72
Marketable Petroleum Coke .....	0	0	0	0	549	335	0	73
Asphalt and Road Oil .....	35	0	0	0	709	0	0	257

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil .....	0	0	0	18	0	0	148	206
Propane .....	27	88	0	0	0	0	0	100
Propylene .....	0	0	–	–	0	0	0	–
Normal Butane .....	0	2	0	0	0	0	0	30
Isobutane .....	0	40	0	0	0	0	0	23
Fuel Ethanol .....	0	0	0	339	0	0	0	27
Biodiesel .....	0	23	0	0	0	0	0	0
Marketable Petroleum Coke .....	0	78	0	0	0	153	81	74
Asphalt and Road Oil .....	180	60	0	80	19	285	116	405

Commodity	From 5 to			
	1	2	3	4
Crude Oil .....	0	0	0	0
Propane .....	0	0	0	0
Propylene .....	0	0	0	–
Normal Butane .....	0	0	0	0
Isobutane .....	0	0	0	0
Fuel Ethanol .....	0	0	0	0
Biodiesel .....	0	0	0	0
Marketable Petroleum Coke .....	0	0	0	0
Asphalt and Road Oil .....	0	0	0	0

– = No Data Reported.  
Source: Rail Movements are estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, September 2017**  
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
<b>From 1 to</b>				
2 .....	15	165	0	180
3 .....	74	0	0	74
4 .....	0	—	0	0
5 .....	—	—	0	0
<b>From 2 to</b>				
1 .....	190	329	263	782
3 .....	40,604	466	0	41,070
4 .....	6,271	—	0	6,271
5 .....	—	—	4,073	4,073
<b>From 3 to</b>				
1 .....	149	283	0	432
2 .....	32,264	0	0	32,264
4 .....	0	—	0	0
5 .....	—	—	18	18
<b>From 4 to</b>				
1 .....	0	0	0	0
2 .....	19,501	0	0	19,501
3 .....	325	0	148	473
5 .....	—	—	206	206
<b>From 5 to</b>				
1 .....	0	0	0	0
2 .....	0	0	0	0
3 .....	0	0	0	0
4 .....	0	—	0	0

— = No Data Reported.

Sources: Energy Information Administration (EIA) Forms EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail Between PAD Districts, September 2017**  
(Thousand Barrels)

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
<b>Crude Oil</b> .....	<b>1,214</b>	<b>254</b>	<b>960</b>	<b>51,945</b>	<b>52,196</b>	<b>-251</b>	<b>41,617</b>	<b>32,714</b>	<b>8,903</b>
<b>Petroleum Products</b> .....	<b>100,865</b>	<b>13,895</b>	<b>86,970</b>	<b>38,767</b>	<b>57,535</b>	<b>-18,768</b>	<b>38,152</b>	<b>105,447</b>	<b>-67,295</b>
Natural Gas Liquids .....	4,142	4,380	-238	18,163	26,240	-8,077	27,003	7,534	19,469
Ethane .....	45	3,820	-3,775	6,209	9,947	-3,738	11,684	523	11,161
Propane .....	3,418	417	3,001	4,300	10,619	-6,319	9,601	2,467	7,134
Normal Butane .....	457	37	420	1,689	3,034	-1,345	2,517	318	2,199
Isobutane .....	222	95	127	1,338	1,215	123	1,126	625	501
Natural Gasoline .....	0	11	-11	4,627	1,425	3,202	2,075	3,601	-1,526
Refinery Olefins .....	393	0	393	0	696	-696	303	0	303
Ethylene .....	0	0	-	-	-	-	0	0	-
Propylene .....	393	0	393	0	696	-696	303	0	303
Butylene .....	0	0	-	0	0	-	0	0	-
Isobutylene .....	0	0	-	0	0	-	0	0	-
Unfinished Oils .....	0	17	-17	433	792	-359	792	416	376
Motor Gasoline Blending Components .....	47,057	6,555	40,502	10,522	3,480	7,042	2,003	54,168	-52,165
Reformulated - RBOB .....	6,266	0	6,266	905	331	574	271	9,737	-9,466
Conventional .....	40,791	6,555	34,236	9,617	3,149	6,468	1,732	44,431	-42,699
CBOB .....	40,672	6,555	34,117	9,315	2,950	6,365	1,533	43,962	-42,429
GTAB .....	0	0	-	-	-	-	0	0	-
Other .....	119	0	119	302	199	103	199	469	-270
Renewable Fuels .....	10,334	0	10,334	23	19,577	-19,554	5,404	874	4,530
Fuel Ethanol .....	10,221	0	10,221	0	19,095	-19,095	5,173	748	4,425
Renewable Diesel Fuel .....	113	0	113	23	482	-459	231	126	105
Other Renewable Fuels .....	-	-	-	-	-	-	0	0	-
Finished Motor Gasoline .....	4,792	126	4,666	891	857	34	285	4,746	-4,461
Reformulated .....	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol .....	0	0	-	0	0	-	0	0	-
Reformulated Other .....	-	-	-	-	-	-	-	-	-
Conventional .....	4,792	126	4,666	891	857	34	285	4,746	-4,461
Conventional Blended with Fuel Ethanol .....	0	0	-	0	0	-	0	0	-
Ed55 and Lower .....	0	0	-	0	0	-	0	0	-
Greater than Ed55 .....	0	0	-	0	0	-	0	0	-
Conventional Other .....	4,792	126	4,666	891	857	34	285	4,746	-4,461
Finished Aviation Gasoline .....	1,374	0	1,374	0	49	-49	49	1,374	-1,325
Kerosene-Type Jet Fuel .....	10,849	232	10,617	1,912	963	949	31	12,507	-12,476
Kerosene .....	0	0	-	0	0	-	0	0	-
Distillate Fuel Oil .....	19,412	2,531	16,881	5,773	1,918	3,855	787	22,034	-21,247
15 ppm sulfur and under .....	17,899	2,531	15,368	5,585	1,918	3,667	787	20,333	-19,546
Greater than 15 ppm to 500 ppm sulfur .....	828	0	828	113	0	113	0	941	-941
Greater than 500 ppm sulfur .....	685	0	685	75	0	75	0	760	-760
Residual Fuel Oil .....	340	0	340	78	881	-803	881	418	463
Petrochemical Feedstocks .....	0	19	-19	19	81	-62	81	0	81
Naphtha for Petrochemical Feedstock Use .....	0	0	-	0	81	-81	81	0	81
Other Oils for Petrochemical Feedstock Use .....	0	19	-19	19	0	19	0	0	-
Special Naphthas .....	0	0	-	0	0	-	0	0	-
Lubricants .....	368	0	368	186	0	186	0	554	-554
Waxes .....	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke .....	549	0	549	231	957	-726	416	78	338
Asphalt and Road Oil .....	1,254	35	1,219	517	1,044	-527	116	724	-608
Miscellaneous Products .....	0	0	-	19	0	19	0	19	-19
<b>Total</b> .....	<b>102,079</b>	<b>14,149</b>	<b>87,930</b>	<b>90,712</b>	<b>109,731</b>	<b>-19,019</b>	<b>79,769</b>	<b>138,161</b>	<b>-58,392</b>

See footnotes at end of table.

**Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail Between PAD Districts, September 2017**  
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
<b>Crude Oil</b> .....	<b>6,271</b>	<b>20,179</b>	<b>-13,908</b>	<b>4,296</b>	<b>0</b>	<b>4,296</b>
<b>Petroleum Products</b> .....	<b>6,624</b>	<b>20,109</b>	<b>-13,485</b>	<b>12,578</b>	<b>0</b>	<b>12,578</b>
Natural Gas Liquids .....	3,565	15,505	-11,940	786	0	786
Ethane .....	607	4,255	-3,648	0	0	—
Propane .....	1,639	5,795	-4,156	340	0	340
Normal Butane .....	695	2,258	-1,563	289	0	289
Isobutane .....	252	1,160	-908	157	0	157
Natural Gasoline .....	372	2,037	-1,665	0	0	—
Refinery Olefins .....	0	0	—	0	0	—
Ethylene .....	—	—	—	—	—	—
Propylene .....	0	0	—	0	0	—
Butylene .....	0	0	—	0	0	—
Isobutylene .....	0	0	—	0	0	—
Unfinished Oils .....	0	0	—	0	0	—
Motor Gasoline Blending Components .....	1,241	1,551	-310	4,931	0	4,931
Reformulated - RBOB .....	—	—	—	2,626	0	2,626
Conventional .....	1,241	1,551	-310	2,305	0	2,305
CBOB .....	1,241	1,551	-310	2,257	0	2,257
GTAB .....	—	—	—	—	—	—
Other .....	0	0	—	48	0	48
Renewable Fuels .....	247	27	220	4,469	0	4,469
Fuel Ethanol .....	182	27	154	4,294	0	4,294
Renewable Diesel Fuel .....	66	0	66	175	0	175
Other Renewable Fuels .....	—	—	—	0	0	—
Finished Motor Gasoline .....	139	700	-561	322	0	322
Reformulated .....	—	—	—	0	0	—
Reformulated Blended with Fuel Ethanol .....	—	—	—	0	0	—
Reformulated Other .....	—	—	—	—	—	—
Conventional .....	139	700	-561	322	0	322
Conventional Blended with Fuel Ethanol .....	0	0	—	0	0	—
Ed55 and Lower .....	0	0	—	0	0	—
Greater than Ed55 .....	0	0	—	0	0	—
Conventional Other .....	139	700	-561	322	0	322
Finished Aviation Gasoline .....	0	0	—	0	0	—
Kerosene-Type Jet Fuel .....	821	45	776	134	0	134
Kerosene .....	0	0	—	0	0	—
Distillate Fuel Oil .....	611	1,147	-536	1,047	0	1,047
15 ppm sulfur and under .....	611	1,147	-536	1,047	0	1,047
Greater than 15 ppm to 500 ppm sulfur .....	0	0	—	0	0	—
Greater than 500 ppm sulfur .....	0	0	—	0	0	—
Residual Fuel Oil .....	0	0	—	0	0	—
Petrochemical Feedstocks .....	—	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use .....	—	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use .....	—	—	—	—	—	—
Special Naphthas .....	—	—	—	0	0	—
Lubricants .....	0	0	—	0	0	—
Waxes .....	0	0	—	0	0	—
Marketable Petroleum Coke .....	0	308	-308	147	0	147
Asphalt and Road Oil .....	0	826	-826	742	0	742
Miscellaneous Products .....	0	0	—	0	0	—
<b>Total</b> .....	<b>12,895</b>	<b>40,289</b>	<b>-27,393</b>	<b>16,874</b>	<b>0</b>	<b>16,874</b>

— = No Data Reported.

Movements of crude oil, fuel ethanol and biodiesel include movements by rail. Movements of other products are by pipeline, tanker and barge only.

Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

## District Descriptions and Maps

The following are the Refining Districts which make up the Petroleum Administration for Defense (PAD) Districts.

### PAD District I

**East Coast:** The District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung, and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

**Appalachian No. 1:** The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

### Sub-PAD District I

**New England:** The States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

**Central Atlantic:** The District of Columbia and the States of Delaware, Maryland, New Jersey, New York, and Pennsylvania.

**Lower Atlantic:** The States of Florida, Georgia, North Carolina, South Carolina, Virginia and West Virginia.

### PAD District II

**Indiana-Illinois-Kentucky:** The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and Ohio.

**Minnesota-Wisconsin-North and South Dakota:** The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

**Oklahoma-Kansas-Missouri:** The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

### PAD District III

**Texas Inland:** The State of Texas except the Texas Gulf Coast District.

**Texas Gulf Coast:** The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

**Louisiana Gulf Coast:** The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

**North Louisiana-Arkansas:** The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

**New Mexico:** The State of New Mexico.

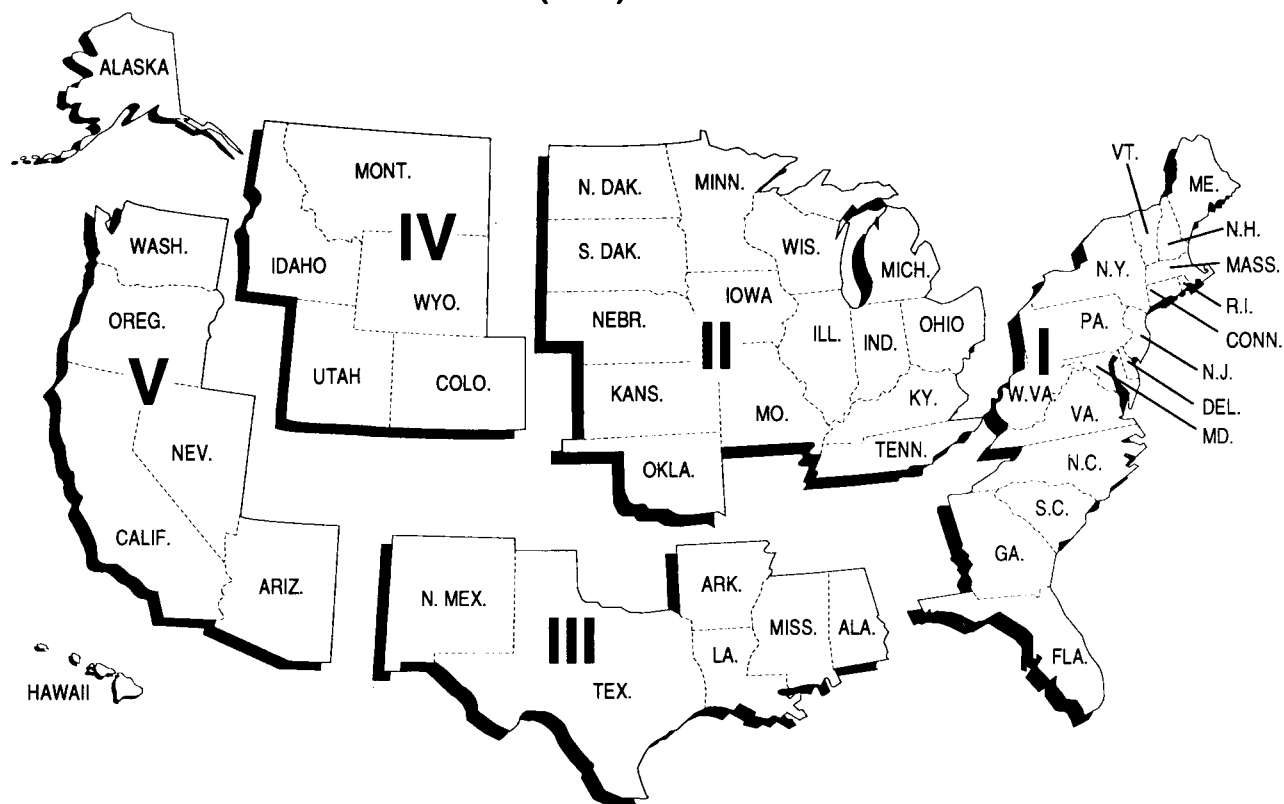
### PAD District IV

**Rocky Mountain:** The States of Montana, Idaho, Wyoming, Utah, and Colorado.

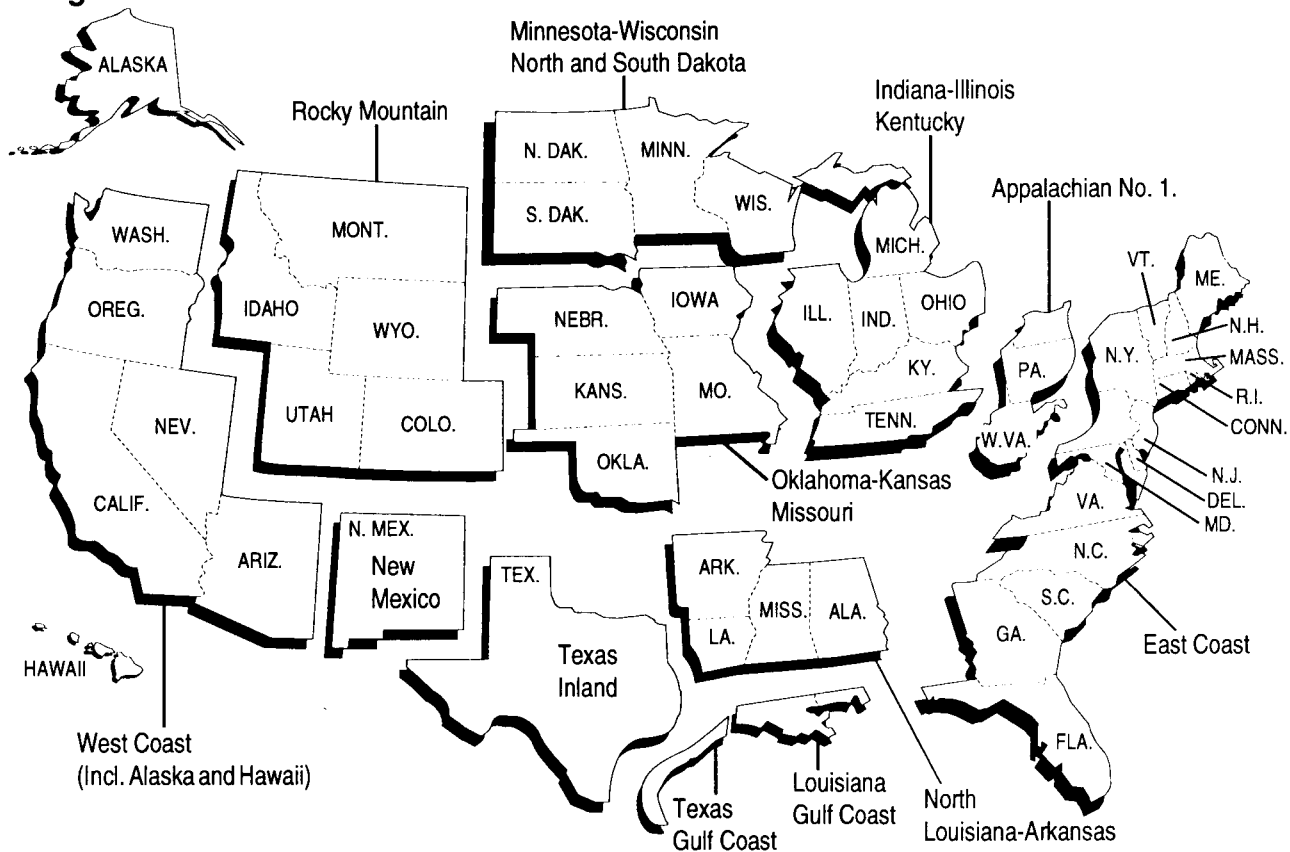
### PAD District V

**West Coast:** The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

## Petroleum Administration for Defense (PAD) Districts



## Refining Districts



## PSM Explanatory Notes

### Preface

The *Petroleum Supply Monthly (PSM)* is the monthly component of a series of three publications concerning the supply and disposition of crude oil and petroleum products produced by the Petroleum Division of the Energy Information Administration (EIA). The other two components are the *Weekly Petroleum Status Report (WPSR)* and the *Petroleum Supply Annual (PSA)*. Together these publications present a comprehensive snapshot of petroleum supply data on a weekly, monthly and yearly basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply: petroleum refiners, motor gasoline blenders, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of petroleum products and crude oil. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

The PSM tables present statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District level, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources.

Final statistics for the data series published in the *PSM* are published in the *PSA*. The *PSA* is published approximately five months after the end of the report year.



## Appendix B. Explanatory Notes

### 1. Overview

#### A. The Energy Information Administration's Quality Guidelines

The data contained in the *Petroleum Supply Monthly (PSM)* are subject to separate information quality guidelines issued by the Office of Management and Budget (OMB), the Department of Energy (DOE), and Energy Information Administration (EIA). With available resources, EIA continually works to improve its systems in order to provide high quality information needed by public and private policymakers and decision makers. EIA has performance standards to ensure the quality (i.e., objectivity, utility, and integrity) of information it disseminates to the public. Quality is ensured and maximized at levels appropriate to the nature and timeliness of the disseminated information.

#### B. Concepts of Product Supply and Demand

Petroleum supply estimates contained in the PSM are often interpreted as an approximation of petroleum demand measured as product supplied. Product supplied is often called “implied” demand because it is a measure of demand that is implied by disappearance of petroleum products from facilities and activities in the “primary” supply chain. Facilities and activities in the primary supply chain include refineries and blending terminals, gas processing plants and fractionators, oxygenate producers, biodiesel producers, imports, exports, bulk storage terminals, and pipelines. Total product supplied in the PSM at the U.S. level is equal to the sum of field production, plus refinery and blender net production, plus renewable fuels, and oxygenate plant net production, plus imports, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports. Net receipts are added as a component of supply at the PAD District level. Crude oil product supplied is normally zero because crude oil is processed in refineries and rarely, if ever, used directly.

The secondary system is that portion of the overall distribution network that falls between producers and end-users. Product typically flows in bulk from the primary supply system into the secondary system before delivery in small quantities to consumers (the tertiary system). The secondary system includes storage at bulk plants; at retail motor fuel outlets, such as service stations, truck stops, and convenience stores; and at retail fuel oil dealers. Bulk plants are wholesale storage facilities that have less than 50,000 barrels of storage capacity and, by definition, receive product only by tank car or truck, not by barge, tanker, or pipeline. Tertiary inventories are held by end users and include fuel in vehicle tanks, heating oil in residential tanks, fuel oil held by utilities, jet fuel stored in facilities operated by end users, and certain proprietary storage of raw materials (e.g. propane) for the chemical industry.

Data users sometimes consider demand as sales to the ultimate consumer or as the actual consumption of the product. Since there may be time delays between the movement of product into the primary market and its ultimate purchase or consumption, these definitions of demand require data on changes in secondary and/or tertiary stocks or the assumption that these values either remain constant or are small

compared to primary supply. The most recent study of secondary stocks was done by the National Petroleum Council in 1989. This study revealed that secondary distillate stocks were equal to about 6.9 percent of distillate stocks and 6.7 percent of distillate storage capacity.

#### C. Components of Supply and Disposition

The detailed statistics tables in the PSM provide complete supply and disposition information for the current month and year to date. The tables are organized to locate National and Petroleum Administration for Defense (PAD) District supply and disposition data at the front followed by tables that contain detailed information on supply and disposition. These include tables on crude oil and petroleum product production, import/export data, stocks information, and lastly, data on crude oil and petroleum product movements. To assist in the interpretation of these tables, the following discussion of supply, disposition, and ending stocks as shown in Tables 1– 25 is provided. The categories and products are defined in the EIA Glossary.

##### (1.) Supply

a. Field Production - Total Field Production is the sum of crude oil production and natural gas plant liquids and liquefied refinery gases production.

Crude oil production is an estimate based on data received from State conservation agencies and the Mineral Management Service of the U.S. Department of the Interior. Refer to “Domestic Crude Oil Production” in Section 2C (1) for further details.

Field production of natural gas plant liquids is reported on Form EIA-816 and published on a net basis (i.e., production minus inputs).

b. Renewable Fuels and Oxygenate Plant Net Production - Renewable Fuels and Oxygenate Plant Net Production are reported on Forms EIA-819 and EIA-22M. Production includes oxygenates (fuel ethanol, ETBE, MTBE, and other oxygenates) plus negative production of pentanes plus, finished motor gasoline, and motor gasoline blending components added to fuel ethanol as denaturants as well as biodiesel. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reported as input during the same month.

c. Refinery and Blender Net Production – Refinery and Blender Net Production is reported on Form EIA-810 and EIA-815. Refinery and Blender Net Production equals refinery and blenders production minus refinery and blender net inputs. Negative production of finished petroleum products will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the

same month.

d. Imports - Imports include receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories or from foreign countries.

e. Net Receipts – Net Receipts data are included in tables containing PAD District-level data to account for inter-PAD District movements of crude oil and petroleum products. Net receipts for a PAD District are calculated by subtracting shipments out of the PAD District from receipts into the PAD District. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge, and Rail between PAD Districts are shown in Table 60.

f. Adjustments – This column includes adjustment quantities for crude oil, fuel ethanol, motor gasoline blending components, biodiesel (included in “Renewable Fuels Except Fuel Ethanol”) and distillate fuel oil. Adjustment quantities are derived either to balance supply and disposition for selected products or to reclassify one product to another product. Product supplied is the balancing item for most products and is interpreted as an implied measure of petroleum demand. Adjustments are used in cases where it does not make sense to interpret the balancing item as demand. Reclassifications reported in the adjustments column may be implied by the supply and disposition balance or reported on surveys. Recall that supply at the U.S. level is equal to the sum of field production, renewable fuels and oxygenate plant net production, refinery and blender net production, imports, and adjustments. Disposition at the U.S. level is equal to the sum of stock change, refinery and blender net inputs, exports, and products supplied. At the PAD District level, supply components include net receipts equal to gross receipts from other PAD Districts minus gross shipments to other PAD Districts. In every case, supply must equal disposition. Applicable components of supply and disposition vary depending on the product or product group. Unless otherwise noted in Section 2C, adjustment calculations that balance supply and disposition equal disposition minus supply for the U.S. and for each PAD District.

## (2.) Disposition

a. Stock Change – Stock Change is calculated as the difference between the current month Ending Stocks column and the Ending Stocks column in the prior month’s publication. A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

b. Refinery and Blender Net Inputs – Refinery and Blender Net Inputs are inputs of crude oil and intermediate materials (unfinished oils, motor and aviation gasoline blending components, liquefied petroleum gases, pentanes plus, hydrogen, oxygenates, renewable fuels, and other hydrocarbons) that are processed at refineries or blended at terminals to produce finished petroleum products.

Crude oil input represents total crude oil (domestic and foreign) input to atmospheric crude oil distillation units and other refinery processing units (e.g. vacuum distillation units).

Inputs of natural gas plant liquids are refinery input of natural gas liquids received from natural gas plants for blending and processing. Published inputs of natural gas plant liquids are reported on a gross basis.

Inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components are published on a net basis (i.e., refinery input minus refinery production). Negative inputs of unfinished oils and motor and aviation gasoline blending components will occur when the amount of a product produced during the month is greater than the amount of that same product that is input or reclassified to become another product during the same month.

c. Exports - Exports include shipments from the 50 States and the District of Columbia to Puerto Rico, the Virgin Islands, other U.S. possessions and territories and to foreign countries.

d. Products Supplied - Products supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, (plus net receipts on a PAD District basis), plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Product supplied value indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of the product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported; (2) data were misreported or reported late; (3) in the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of inter-PAD movements was incomplete; and (4) products such as gasoline blending components and unfinished oils have entered the primary supply channels with their production not having been reported, e.g., streams returned to refineries from petrochemical plants.

Beginning with data for January 2010, product supplied for crude oil is assumed equal to zero. Prior to January 1983, crude oil burned on leases and by pipelines as fuel was reported as either distillate or residual fuel oil and was included in product supplied for these products. From January 1983 through December 2009, crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report.” Reporting of crude oil used directly was discontinued on Form EIA-813 after December 2009.

## (3.) Ending Stocks

Ending stocks are primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals.

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage. Primary stocks of petroleum products also exclude secondary stocks held by dealers and jobbers and tertiary stocks held by consumers. Product stocks held as reserves by federal and state agencies are excluded from primary stock quantities reported by EIA, but quantities held in selected government reserves are provided in Appendix D.

Primary stocks of crude oil included barrels held on producing sites (lease stocks) until June 2016. Primary stocks of crude oil excluded lease stocks beginning with release of PSM data for July 2016 on September 30, 2016. Historical crude oil stocks in Petroleum Navigator were revised beginning with data for January 2005 to exclude lease stocks. Petroleum Navigator data may be accessed from the following locations on the EIA web site.

[http://www.eia.gov/dnav/pet/pet\\_sum\\_snd\\_d\\_nus\\_mbbbl\\_m\\_cur.htm](http://www.eia.gov/dnav/pet/pet_sum_snd_d_nus_mbbbl_m_cur.htm)  
[http://www.eia.gov/dnav/pet/pet\\_sum\\_crdsnd\\_k\\_m.htm](http://www.eia.gov/dnav/pet/pet_sum_crdsnd_k_m.htm)  
[http://www.eia.gov/dnav/pet/pet\\_stoc\\_typ\\_c\\_nus\\_EPC0\\_mbbbl\\_m.htm](http://www.eia.gov/dnav/pet/pet_stoc_typ_c_nus_EPC0_mbbbl_m.htm)

## 2. Components - Forms Discussions

The data presented in the PSM include data collected by the EIA on nine monthly petroleum supply surveys, export data obtained from the U. S. Bureau of the Census, and crude production data obtained from State conservation agencies and the Minerals Management Service of the U. S. Department of Interior.

### A. Petroleum Supply Reporting System

The nine monthly petroleum supply surveys are part of the Petroleum Supply Reporting System (PSRS). The PSRS tracks the supply and disposition of crude oil, petroleum products, and natural gas liquids in the United States. The PSRS is organized into two data collection subsystems: the Weekly Petroleum Supply Reporting System (WPSRS) and the Monthly Petroleum Supply Reporting System (MPSRS). The WPSRS processes the data from the seven weekly surveys. The MPSRS includes nine monthly surveys and one annual survey. The survey forms that comprise the PSRS are:

1. EIA-800, "Weekly Refinery Report,"
2. EIA-802, "Weekly Product Pipeline Report,"
3. EIA-803, "Weekly Crude Oil Stocks Report,"
4. EIA-804, "Weekly Imports Report,"
5. EIA-805, "Weekly Terminal Blender Report,"
6. EIA-809, "Weekly Oxygenate Report,"
8. EIA-22M, "Monthly Biodiesel Production Survey,"
9. EIA-810, "Monthly Refinery Report,"
10. EIA-812, "Monthly Product Pipeline Report,"
11. EIA-813, "Monthly Crude Oil Report,"
12. EIA-814, "Monthly Imports Report,"
13. EIA-815, "Monthly Terminal Blender Report,"
14. EIA-816, "Monthly Natural Gas Liquids Report"
15. EIA-817, "Monthly Tanker and Barge Movement Report"
16. EIA-819, "Monthly Oxygenate Report"

### 17. EIA-820, "Annual Refinery Report."

Both weekly and monthly surveys are administered at six key points along the petroleum production and supply chain including refineries, fractionators, natural gas processing plants, bulk product storage and blending terminals, crude oil and product pipelines, crude oil stock holders, importers, and renewable fuel (biodiesel and fuel ethanol) and oxygenate producing plants. Monthly surveys also include inter-PAD District movements by pipelines, tankers, and barges. Weekly surveys do not capture petroleum movements. Respondents reporting on weekly surveys are sampled from among the respondents reporting on monthly surveys.

Annual U.S. refinery capacity data are collected on the Form EIA-820, "Annual Refinery Report." The EIA-820 data are published in the annual "Refinery Capacity Report."

### B. Monthly Supply Survey Description and Methodology

#### (1.) Description of Surveys Forms

Copies of the survey forms and instructions can be found at: [http://www.eia.doe.gov/oil\\_gas/petroleum/survey\\_forms/pet\\_survey\\_forms.html](http://www.eia.doe.gov/oil_gas/petroleum/survey_forms/pet_survey_forms.html)

The Form EIA-22M "Monthly Biodiesel Production Survey" collects data on biodiesel plant location, operating status, annual production capacity, monthly biodiesel and co-product production, stocks, input of feedstocks, alcohol, and catalysts, and biodiesel sales.

The Form EIA-810, "Monthly Refinery Report," collects data on refinery input and capacity, sulfur content and API gravity of crude oil, and data on supply (beginning stocks, receipts, and production) and disposition (inputs, shipments, fuel use and losses, and ending stocks) of crude oil and refined products. Working and shell storage capacity for selected products is collected on a semi-annual basis.

The Form EIA-812, "Monthly Product Pipeline Report," collects data on end-of-month stocks and movements of petroleum products transported by pipeline. Intermediate movements for pipeline systems operating in more than two PAD Districts are included. Product pipeline tank storage capacity for selected products is collected on a semi-annual basis.

The Form EIA-813, "Monthly Crude Oil Report," collects data on end-of-month stock levels of crude oil held at pipeline and tank farms (associated with the pipelines) and terminals operated by the reporting company. Also, crude oil consumed by pipelines and on leases as pump fuel, boiler fuel, etc., is reported. Data are reported on a PAD District basis. Total Alaskan crude oil stocks in-transit by water (including stocks held at transshipment terminals between Alaska and the continental United States) to the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands are also reported by the transporting company having custody of the stocks. Inter-PAD District movements of crude oil by pipeline are collected by the shipping and receiving PAD District. Intermediate movements for pipeline systems operating in more than two PAD Districts

are not included. Crude oil storage capacity of tank farms is collected on a semi-annual basis.

The Form EIA-814, “Monthly Imports Report,” collects data on imports of crude oil and petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands, and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), and (3) from Puerto Rico, the Virgin Islands, and other U.S. possessions into the 50 States and the District of Columbia. Imports into Foreign Trade Zones located in the 50 States and the District of Columbia are considered imports into the 50 States and the District of Columbia. The type of commodity, port of entry, country of origin, quantity (thousand barrels), sulfur percent by weight, API gravity, and name and location of the processing or storage facility are reported. Sulfur percent by weight is requested for crude oil, crude oil burned as fuel, and residual fuel oil only. API gravity is requested for crude oil only. The name and location of the processing or storage facility is requested for crude oil, unfinished oils, and gasoline blending components only.

The Form EIA-815, “Monthly Terminal Blender Report,” collects data on the operations of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U. S. possessions. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and fuel use and losses during the month are collected from operators of terminals. Working and shell storage capacity is collected on a semi-annual basis.

The Form EIA-816, “Monthly Natural Gas Liquids Report,” collects data on the operations of natural gas processing plants and fractionators. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and plant fuel use and losses during the month are collected from operators of natural gas processing plants. End-of-month stocks are collected from fractionators.

The Form EIA-817, “Monthly Tanker and Barge Movement Report,” collects data on the movements of crude oil and petroleum products between PAD Districts. Data are reported by shipping and receiving PAD District and sub-PAD District. Shipments to and from the Panama Canal are also included if the shipment was delivered to the Canal.

The Form EIA-819, “Monthly Oxygenate Report” collects facility-level data on oxygenate inputs, production, gasoline blending at ethanol plants, and end-of-month stocks. Data on end-of-month stocks are reported on a custody basis regardless of ownership. Fuel ethanol storage capacity is collected on a semi-annual basis.

## (2.) Frame

EIA maintains complete lists of respondents to its monthly surveys. Each survey has a list of companies and facilities required to submit petroleum activity data. This list is known as the survey frame. Frame maintenance procedures are used to monitor the status of petroleum companies and facilities

currently contained in each survey frame as well as to identify new members to be added to the frame. As a result, all known petroleum supply organizations falling within the definition of “Who Must Submit” participate in the survey.

The activities for frames maintenance are conducted on an ongoing basis. Monthly frames maintenance procedures focus on examining industry periodicals that report changes in status (births, deaths, sales, mergers, and acquisitions) of petroleum facilities producing, transporting, importing, and/or storing crude oil and petroleum products. Augmenting these sources are articles in newspapers, notices from respondents, and information received from survey systems operated by other offices. Survey managers review these sources regularly to monitor changes in company operations and to develop lists of potential respondents. These activities assure coverage of the reporting universe and maintain accurate facility information on addresses and ownership.

Respondents to Form EIA-22M “Monthly Biodiesel Production Survey” include operators of plants that produce biodiesel meeting ASTM D 6751-07B specifications and used for commercial purposes.

Respondents to Form EIA-810, “Monthly Refinery Report” include operators of all operating and idle petroleum refineries located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam and other U.S. possessions.

Respondents to Form EIA-812, “Monthly Product Pipeline Report” include all product pipeline companies that carry petroleum products (including interstate, intrastate, and intra-company pipelines) in the 50 States and the District of Columbia.

Respondents to Form EIA-813, “Monthly Crude Oil Report” include all companies which carry or store 1,000 barrels or more of crude oil. Included in this survey are gathering and trunk pipeline companies (including interstate, intrastate, and intra-company pipelines), crude oil tank farm operators, and companies transporting Alaskan crude oil by water (to U.S. ports) in the 50 States and the District of Columbia.

Respondents to Form EIA-814, “Monthly Imports Report” include each importer of record (or Ultimate consignee in some situations regarding Canadian imports) that import crude oil or petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), (3) into Foreign Trade Zones located in the 50 States and the District of Columbia and (4) from Puerto Rico, the Virgin Islands and other U.S. possessions into the 50 States and the District of Columbia. A report is required only if there has been an import during the month unless the importer has been selected as part of a sample to report every month regardless of activity.

Respondents to Form EIA-815, “Monthly Terminal Blender Report” include operators of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands,

Guam, and other U. S. possessions must report. A bulk terminal is primarily used for storage, marketing, and often blending of petroleum products and has a total bulk storage capacity of 50,000 barrels or more, and/or receives petroleum products by tanker, barge, or pipeline. Bulk terminal facilities associated with a product pipeline are included.

Respondents to Form EIA-816, "Monthly Natural Gas Liquids Report" include operators of all facilities that extract liquid hydrocarbons from a natural gas stream (natural gas processing plant) and/or separate a liquid hydrocarbon stream into its component products (fractionator).

Respondents to Form EIA-817, "Monthly Tanker and Barge Movement Report" include all companies that have custody of crude oil or petroleum products transported by tanker or barge between Petroleum Administration for Defense Districts and all companies that have custody of crude oil or petroleum products originating from a PAD District and transported to the Panama Canal with the intent that the crude oil or petroleum products be further transported to another PAD District.

For purposes of this report, custody is defined as physical possession of crude oil or petroleum products on a company-owned tanker or barge. Also, companies that lease vessels or contract for the movement of crude oil or petroleum products on a tanker or barge between PAD Districts are considered to have custody.

Respondents to Form EIA-819, "Monthly Oxygenate Report" include all operators of facilities that produce (manufacture or distill) oxygenates (including MTBE plants, petrochemical plants, and refineries that produce oxygenates as part of their operations located in the 50 States and the District of Columbia.)

### (3.) Collection

Survey data for the MPSRS are collected by facsimile, email, Internet using secure file transfer, and electronic transmission. All respondents must submit their data by the 20th calendar day following the end of the report month. Receipt of the reports is monitored using an automated respondent mailing list. Telephone follow-up calls are made to nonrespondents prior to the publication deadline. Respondents who are chronically late (i.e., 3 consecutive months) are notified by EIA by certified letter.

### (4.) Processing and Micro Editing

Upon receipt, all reported data are transformed into a standard format and sent through a log-in and prescreening process to validate respondent control information and resolve any discrepancies. The data are then processed using generalized edit and imputation procedures. Automated editing procedures check current data for consistency with past data and for internal consistency (e.g., totals equal to the sums of the parts). After the edit failures are resolved and imputation performed for nonrespondents, preliminary tables are produced and used to identify anomalies. These tables show U.S. and PAD District estimates for the current month and the prior 4 years. Anomalies

result in further review of respondent data which in turn may result in additional flagged data and imputation.

### (5.) Estimation and Imputation

The nine monthly supply surveys are census surveys. As such, the estimates using these data are the sum of the edited, reported data. Imputation is performed for companies that fail to file Forms EIA-22M, 810, 812, 813, 815, 816, and 819. For these companies, previous monthly values and values reported on the weekly survey forms are used if available. Data for nonrespondents to the Forms EIA-814 and 817 are not imputed because respondent-level data for these surveys are highly variable.

Adjustments are made to aggregate data from time to time. For example, unusual industry conditions, including fuel transitions, business practice shifts, or hurricane dislocations, may generate reporting anomalies and require adjustments. Measurement error and frame deficiencies may occasionally result in inconsistencies when individual respondent data are aggregated to publication levels and require adjustment. Monthly supply data are reviewed throughout the year and some estimates may be replaced with newly available or resubmitted respondent data in the *Petroleum Supply Annual (PSA)*.

### (6.) Macro Editing

Monthly data are compared to weekly data on a regular basis. Discrepancies between weekly and monthly data are documented and respondents are called when discrepancies are either large (usually over 300 thousand barrels) or consistent (e.g., weekly data are always lower than monthly data). In addition, a comparison of the data collected on the PSRS with other similar data series from sources outside of the EIA is performed on an ongoing basis. Results of selected data comparisons are published once a year in the feature article, "Comparison of Independent Statistics on Petroleum Supply." Additional comparisons are made between survey data and model results. Data reported in the Petroleum Supply Monthly and Petroleum Supply Annual are routinely imputed to correct for cases where comparison with other data suggests errors in survey data.

### (7.) Dissemination

The *PSM* data are normally released within 60 days of the close of the reference month. The *PSM* is available on the web at:

<http://www.eia.gov/petroleum/supply/monthly/>

Much of the *PSM* data are available on the web product, Petroleum Navigator. Petroleum Navigator provides an interface for accessing a comprehensive set of EIA's petroleum data. Features include: downloadable spreadsheets containing complete data history, data tables which "pivot" to present different perspectives, and selection boxes to easily change the product, area, process, period, and unit of measure. Petroleum Navigator can be accessed at: <http://www.eia.gov/petroleum/data.cfm>

## C. Derived Data

Due to the time constraints in publishing monthly petroleum supply statistics and the desire to reduce industry response burden, some of the statistics published in the PSM are obtained from sources other than the monthly supply surveys. These other sources include models to data and data from supplemental sources such as the Bureau of the Census.

### (1.) Domestic Crude Oil Production

The interim estimate of U.S., PAD District, and state oil production for the current reference month, published in Tables 1 through 26 of the PSM, are based on:

- (a.) crude oil production data from state government agencies and the Department of the Interior, Bureau of Safety and Environmental Enforcement;
- (b.) crude oil production data reported on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report." For some states, EIA uses current reported data from the state (chiefly Alaska). For the states of Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and the Federal Gulf of Mexico, EIA calculates an estimate by modeling the relationship between final state-level data from DrillingInfo, a third-party vendor of well-level data collected by state agencies, and data reported on the EIA-914 survey using weighted least squares (WLS) linear regression. Additional explanation of the WLS estimation methodology is available. Estimates have to be made for crude oil production because complete and correct data from states may take from several months to over two years.
- (c.) first purchase data reported on Form EIA-182 "Domestic Crude Oil First Purchase Report." For the remaining states and areas (Alabama, Arizona, Federal Pacific Offshore, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia) EIA calculates an estimate by using the average lagged ratio (ALR) of the state reported data to EIA-182 data, applied to the current EIA-182 data. Additional explanation of the ALR estimation methodology is available.

State-level production estimates are published in Table 26, "Production of Crude Oil by PAD District and State." Table 26 contains estimates for crude oil production for state and federal offshore areas reported by state agencies and the Bureau of Safety and Environmental Enforcement or estimated by EIA using the ALR or WLS methods discussed above. Every month, the monthly crude oil production estimates are updated in Table 26 of the Petroleum Supply Monthly (<http://www.eia.gov/petroleum/supply/monthly/>) using reports from state agencies and the Bureau of Safety and Environmental Enforcement. The estimates are reported in the Petroleum

Navigator and the Petroleum Supply Monthly roughly 60 days after the production month.

### (2.) Exports

The U.S. Bureau of the Census compiles the official U.S. export statistics. Exporters are required to file a "Shipper's Export Declaration Document" with the U.S. Census Bureau. Each month the EIA receives aggregated export statistics from the U.S. Bureau of the Census (EM-522 and EM-594). Census export statistics used in the PSM reflect both government and non-governmental exports of domestic and foreign merchandise from the United States (the 50 States and the District of Columbia) to foreign countries and U.S. possessions, without regard to whether or not the exportation involves a commercial transaction. The following types of transactions are excluded from the statistics:

- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

### (3.) Movements of crude oil by railroad

The volume of crude oil, ethanol, biodiesel, propane, propylene, normal butane, and isobutane moving by railroad is calculated using several data sources including Carload Waybill Sample (CWS) data from the U.S. Surface Transportation Board (STB), data from the National Energy Board of Canada (NEB), data in EIA's Oil and Gas Supply Module (OGSM) within the National Energy Modeling system (NEMS) for data prior to 2015, the EIA-915 survey starting in January 2015, and an estimation procedure developed by EIA for months in which data these data are not available.

Once the data necessary for calculating rail movements become available, which may take as long as 60 days after the end of a calendar quarter, EIA will revise the estimates made.

Movements of crude oil, ethanol, biodiesel, propane, propylene, normal butane, and isobutane by rail are based on EIA analysis of carload data from the STB CWS. Additional data from the NEB, OGSM, and the EIA-915 are used for estimating factors for converting carloads to barrels of crude oil. Carloads of ethanol, biodiesel, propane, propylene, normal butane, and isobutane are converted to barrels using data from the CWS.

Carload data from the STB are available approximately 60 days after the end of each quarter. For example, carload data for the first quarter of each year are typically available by about June 1. Therefore, recent-month rail movements reported by EIA in the Petroleum Supply Monthly and Petroleum Navigator are modeled based on historical rail movement averages, medians, or correlations of rail movements derived from actual carload data with other regional supply data collected by EIA or other sources including field production, imports, refinery and blender inputs, movements other than rail, exports, and supply adjustments.

Estimates of rail movements are subject to revision on a monthly basis as new, more complete, and more accurate data become available. Monthly revisions will typically affect data available through Petroleum Navigator on the EIA web site for the current year and up to two prior years. To the extent that revisions are needed to data more than 2 years in the past, these revisions will be made once a year at the time when Petroleum Navigator tables are updated with final data for a year from the Petroleum Supply Annual. Petroleum Supply Monthly and Petroleum Supply Annual tables released as PDF files will not be revised.

#### (4.) Stocks of Crude Oil held on Producing Sites (Lease Stocks)

The adjustment for lease stocks was discontinued beginning with PSM data for July 2016 released on September 30, 2016 because EIA discontinued reporting crude oil stocks held on producing sites (lease stocks). The lease stock adjustment remains in all historical EIA lease stocks data.

This adjustment corrects for incomplete survey coverage of companies that store crude oil on leases. Up until 1983, monthly state government data on lease stocks were substituted for EIA data wherever possible in order to rectify the understatement of lease crude oil stocks. State data were available from three states - Texas, New Mexico, and Montana. To calculate the “lease adjustment,” a comparison between EIA reported data and the state government data was made and the difference added to the EIA data for the respective states.

In 1983, the EIA modified the Form EIA-813 to eliminate state data on crude oil stocks and began collecting crude oil stock data by Petroleum Administration for Defense (PAD) District. With this change, the “lease adjustment” could no longer be calculated on a state basis and was changed to a PAD District level. To adjust for this incomplete coverage, 10,300 thousand barrels of crude oil are added to PAD District 3 stocks and 330 thousand barrels are added to PAD District 4 stocks.

#### (5.) Trans-Alaska Pipeline System (TAPS) Natural Gas Plant Liquids (NGPL Adjustment)

The TAPS-NGPL adjustment corrects for overstatement of crude oil receipts and input at refineries due to NGPL injection into Alaskan crude oil transported in TAPS. Natural gas

processing plants in Alaska produce substantial volumes of NGPL that are added to crude oil transported through TAPS. Refiners have been unable to separate the volume of NGPL from Alaskan crude oil when reporting crude oil receipts and inputs to EIA. The TAPS-NGPL adjustment subtracts Alaskan NGPL production reported by selected gas processing plant operators from crude oil receipts and inputs reported by refiners. Adjusted NGPL production is added to refinery receipts and inputs of NGPL. The adjusted NGPL barrels are allocated to PAD Districts based on the regional distribution of receipts of Alaskan crude oil. Data most affected by the TAPS-NGPL adjustment are receipts and inputs of crude oil in PAD District 5 and receipts, inputs, and product supplied of butane and pentanes plus also in PAD District 5.

NGPL injections into crude oil transported in the TAPS started in 1987. The TAPS-NGPL adjustment was first applied to revised data reported in the Petroleum Supply Annual (PSA) for 1988.

#### (6.) Finished Motor Gasoline Adjustment

Adjustment quantities for finished motor gasoline are the sum of motor gasoline blending components, fuel ethanol, and methyl tertiary butyl ether (MTBE) adjustments reclassified to finished motor gasoline. Finished motor gasoline adjustment quantities are assumed to reflect gasoline blending activity that was not reported on surveys.

**Note on MTBE Adjustment:** The MTBE portion of the gasoline adjustment described in this section was only applied to Petroleum Supply Monthly (PSM) data for 2009. The MTBE portion of the gasoline adjustment was discontinued after further examination of the issue made clear the MTBE adjustment was not helpful in forming an accurate statistical representation of U.S. and regional gasoline supplies. The MTBE adjustment was not applied to gasoline supply and disposition data in years prior to 2009, nor was it applied to revised data for 2009 published in the Petroleum Supply Annual or in years after 2009. This note only applies to MTBE adjustments. MTBE blending that was reported on EIA surveys is reflected in U.S. and regional gasoline supply and disposition data. Other adjustments to gasoline supply and disposition data to account for motor gasoline blending components and fuel ethanol remain as described in this section.

- Adjustment quantities for finished reformulated motor gasoline include adjustments for reformulated blendstock for oxygenate blending (RBOB) plus a percentage of gasoline treated as blendstock (GTAB), “other” motor gasoline blending components, fuel ethanol, and MTBE. The quantity of GTAB and “other” motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline is based on the ratio of finished reformulated motor gasoline net production divided by total finished motor gasoline net production reported on surveys by refiners and blenders in each

PAD District. Motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline are further classified as blended with alcohol (i.e. fuel ethanol), blended with ether (i.e. MTBE), or non-oxygenated during 2009.

Starting with data for January 2010, motor gasoline blending component adjustment quantities were classified only as blended with fuel ethanol and “other”. During 2009, RBOB adjustment quantities were classified based on the product description that included reference to the oxygenate to be blended. Beginning with data for January 2010, all RBOB is reported in one product category without reference to specific oxygenates, and all RBOB adjustment quantities are assumed blended with fuel ethanol. During 2009, adjustment quantities for GTAB and “other” motor gasoline blending components reclassified to finished reformulated gasoline were further classified as blended with ether, blended with alcohol, or non-oxygenated based on the ratio of production of these products in reported survey data. After determining adjustment quantities of motor gasoline blending components reclassified to each type of finished reformulated motor gasoline, portions of the fuel ethanol and MTBE adjustments were reclassified to reformulated motor gasoline. The fuel ethanol quantity reclassified to finished reformulated motor gasoline was determined using the ratio of fuel ethanol blended into finished motor gasoline calculated from fuel ethanol blending data reported on survey forms by PAD District. For example, if the calculated volumetric fuel ethanol blend ratio was 10%, then a quantity of the fuel ethanol adjustment sufficient to make a 10% blend with the available motor gasoline blending components is reclassified to finished reformulated motor gasoline, but the quantity of fuel ethanol cannot exceed the total quantity of the fuel ethanol adjustment. During 2009, a similar process was followed for allocating the MTBE adjustment to reformulated motor gasoline except the blend ratio was assumed to be 12% in all PAD Districts. Starting with data for January 2010, the entire MTBE adjustment quantity is assumed to be blended with finished conventional motor gasoline.

- Adjustment quantities for finished conventional motor gasoline include adjustments for conventional blendstock for oxygenate blending (CBOB) plus the portion of GTAB, “other” motor gasoline blending components, fuel ethanol and MTBE adjustments that were not reclassified to finished reformulated motor gasoline. The total adjustment to finished conventional motor gasoline is further classified as finished conventional gasoline blended with fuel ethanol and “other” finished conventional motor gasoline. The quantity of the finished conventional motor gasoline adjustment reclassified as finished conventional motor gasoline blended with fuel ethanol is determined using the quantity of the fuel ethanol adjustment allocated

to finished conventional motor gasoline and the fuel ethanol blend ratio calculated from fuel ethanol blending reported on surveys by PAD District. For example, if the fuel ethanol blend ratio calculated from survey data was 10% in a PAD District, then the total adjustment quantity of finished conventional motor gasoline in that PAD District would be 10 times the fuel ethanol adjustment quantity allocated to finished conventional gasoline (i.e. the adjustment to finished conventional motor gasoline blended with fuel ethanol includes 10% fuel ethanol and 90% gasoline from the motor gasoline blending components adjustment). The MTBE adjustment allocated to finished conventional motor gasoline is simply added to the adjustment for “other” finished conventional motor gasoline.

- Fuel ethanol adjustment quantities frequently exceed the volume of fuel ethanol needed to achieve a blend ratio implied by blending activity reported by refiners and blenders on surveys when considering only the gasoline barrels available from the motor gasoline blending components adjustment. In this case, “other” finished conventional motor gasoline is reclassified by the adjustment to finished conventional motor gasoline blended with alcohol in order to maintain an ethanol blend ratio equal to the fuel ethanol blend ratio reported by refiners and blenders in each PAD District.

#### (7.) Motor Gasoline Blending Components Adjustment

Adjustment quantities for motor gasoline blending components at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports and renewable fuels and oxygenate plant net production (i.e. motor gasoline blending components use as denaturant for fuel ethanol production). Adjustment quantities by PAD District equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, renewable fuels and oxygenate plant net production, and net receipts. Motor gasoline blending components adjustments are calculated for reformulated blendstock for oxygenate blending (RBOB), conventional blendstock for oxygenate blending (CBOB), gasoline treated as blendstock (GTAB), and “other” motor gasoline blending components. Product supplied for motor gasoline blending components is assumed to always equal zero because there is no end-user demand for motor gasoline blending components as anything other than finished motor gasoline. Motor gasoline blending components adjustment quantities are assumed to reflect finished motor gasoline blending implied by the supply and disposition balance but not reported on surveys. Adjustment quantities for motor gasoline blending components are reclassified to finished motor gasoline and added to the finished motor gasoline adjustment.

#### (8.) Renewable Fuels including Fuel Ethanol Adjustment

Adjustment quantities for renewable fuels (including fuel ethanol) at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum



of renewable fuels and oxygenate plant net production and imports. Calculation of adjustment quantities by PAD District depends on the product. Individual products include fuel ethanol, biomass based diesel fuel (including biodiesel), “other” renewable diesel fuel, and “other” renewable fuels (e.g. bio-jet fuel). Product supplied for renewable fuels (including fuel ethanol) is assumed equal to zero. Adjustments for fuel ethanol and “other” renewable fuels are discussed separately below.

- Fuel ethanol adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. There are no survey data available for rail movements of fuel ethanol between PAD Districts, and so allocation of fuel ethanol adjustments to PAD Districts is based on the ratio of fuel ethanol blending reported on surveys in each PAD District divided by fuel ethanol blending reported on surveys for the entire U.S. In this case, Fuel ethanol implied net receipts are calculated for each PAD District as the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production, imports, and adjustments. Fuel ethanol implied net receipts are the balancing item between total supply and disposition in each PAD District. Fuel ethanol adjustment quantities are assumed to reflect blending of fuel ethanol into finished motor gasoline that is implied by the available supply of fuel ethanol but not reported on surveys. Fuel ethanol adjustment volumes are reclassified to finished reformulated motor gasoline and finished conventional motor gasoline through finished motor gasoline adjustments.

- The product category called “renewable fuels except fuel ethanol” includes biomass-based diesel fuel (including biodiesel), “other” renewable diesel fuel, and “other” renewable fuels (e.g. bio-jet fuel). For PSM data prior to January 2012, renewable fuels except fuel ethanol adjustment quantities at the U.S. and PAD District levels were calculated as the sum of stock change, refinery and blender net input, and exports minus imports. Data for production of Renewable Fuels except Fuel Ethanol was unavailable and was excluded from Renewable Fuels and Oxygenate Plant Net Production. Therefore the calculation of adjustments to Renewable Fuels except Fuel Ethanol caused production to be included in the adjustment. Similarly, the calculation caused net inter-PAD District movements (i.e. net receipts) by rail and truck to also be included in adjustments to renewable fuels except fuel ethanol.

- Beginning with PSM data for January 2012, production of biodiesel reported on Form EIA-22M was included under the heading of “renewable fuels and oxygenate plant net production” in petroleum

supply and disposition balances for “renewable fuels except fuel ethanol”. As a result, the adjustment for “renewable fuels except fuel ethanol” no longer includes production of biodiesel. This change will also be made to revised monthly data for January-December 2011 when the 2011 Petroleum Supply Annual is released.

- Biodiesel adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. There are no survey data available for rail movements of biodiesel between PAD Districts, and so allocation of fuel biodiesel adjustments to PAD Districts is based on the ratio of biomass-based diesel blending reported on surveys in each PAD District divided by biomass-based diesel fuel blending reported on surveys for the entire U.S. Biodiesel implied net receipts are calculated for each PAD District as the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production, imports, and adjustments. Biodiesel implied net receipts are the balancing item between total supply and disposition in each PAD District. Biodiesel adjustment quantities are assumed to reflect blending of biodiesel into distillate fuel oil that is implied by the available supply of biodiesel but not reported as input on surveys. Biodiesel adjustment volumes are reclassified to distillate fuel oil (15 ppm sulfur and under) through distillate fuel oil adjustments.

#### (9.) Distillate Fuel Oil Adjustment

Adjustment quantities for distillate fuel oil show reclassification by pipeline operators of distillate fuel oil with sulfur content of 15 ppm and under to distillate fuel oil with sulfur content greater than 15 ppm to 500 ppm (inclusive). Reclassification may occur when distillate product with sulfur content of 15 ppm and under becomes mixed with products having higher sulfur content during pipeline transportation, storage, or handling. Adjustment quantities are reported by pipeline operators on Form EIA-812 “Monthly Product Pipeline Report.” This adjustment was discontinued after publication of data for December 2010

Beginning with PSM data for January 2012, distillate fuel oil adjustments equal the opposite of biodiesel adjustments described above in section 7. Biodiesel adjustments are added to distillate fuel oil (15 ppm sulfur and under) and to total distillate fuel oil. Distillate fuel oil adjustment quantities are assumed to reflect biodiesel blending activity implied by biodiesel supply and disposition but not reported on surveys. Distillate fuel oil adjustments for biodiesel will also be added to revised data for January-December 2011 when the 2011 Petroleum Supply Annual is released.

### (10.) Crude Oil Adjustment

Adjustment quantities for crude oil are derived to balance crude oil supply and disposition. Crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report” in data through December 2009. Reporting crude oil used directly was discontinued on Form EIA-813 after collection of data for December 2009. Crude oil product supplied is assumed equal to zero beginning with data for January 2010. Undercounting crude oil imports in survey data is one example of a typical cause of crude oil adjustments. This results in a positive crude oil adjustment because crude oil disposition (i.e. the sum of stock change, refiner inputs, and exports) will exceed available supply (i.e. the sum of field production and imports) due to import undercounting. Crude oil losses are included in crude oil adjustment quantities. The crude oil adjustment was formerly called unaccounted-for crude oil. The name change was effective with data for January 2005.

### (11.) Other Hydrocarbon Adjustment

Adjustment quantities for “other” hydrocarbons equal the sum of stock change, refinery and blender net inputs and exports minus imports. “Other” hydrocarbons product supplied is assumed equal to zero. Adjustment quantities account for “other” hydrocarbons produced outside of refineries. There are no movements data collected on surveys for “other” hydrocarbons. Therefore, adjustment quantities include any net receipts of “other” hydrocarbons resulting from inter-PAD District movements.

### (12.) Hydrogen Adjustment

Adjustment quantities for hydrogen equal refinery and blender net input of hydrogen. Hydrogen product supplied is assumed equal to zero. Adjustment quantities account for hydrogen supplied to U.S. refineries from non-refinery sources. There are no movements data collected on surveys for hydrogen. Therefore, adjustment quantities at the PAD District level include any net receipts of hydrogen resulting from inter-PAD District movements.

### (13.) Oxygenates (excluding fuel ethanol) Adjustment

Adjustment quantities for oxygenates (excluding fuel ethanol) equal the sum of stock change, refinery and blender net inputs, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. Product supplied for oxygenates (excluding fuel ethanol) is assumed equal to zero. Methyl tertiary butyl ether (MTBE) is the single largest component of oxygenates (excluding fuel ethanol).

## 3. Quality

### A. General Discussion

#### (1.) Response Rates

The response rate is generally 98 to 100 percent. Average response rates for the monthly and weekly surveys are published in the annual PSM article “Accuracy of Petroleum Supply Data.” Chronic nonrespondents and late filing respondents are contacted in writing and reminded of their requirement to report. Companies that file late or fail to file are subject to criminal fines, civil penalties, and other sanctions as provided by Section 13(i) of the Federal Energy Administration (FEA) Act.

#### (2.) Non-sampling Errors

There are two types of errors usually associated with data produced from a survey; sampling errors and nonsampling errors. Because the estimates for the monthly surveys are based on a complete census of the frame, there is no sampling error in the data presented. The data, however, are subject to non-sampling errors. Non-sampling errors may arise from a number of sources including: (1) the inability to obtain data from all companies in the frame (non-response) and the method used to account for non-response, (2) response errors, (3) differences in the interpretation of questions or definitions, (4) mistakes in recording or coding of the data obtained from respondents, and (5) other errors of collection, response, coverage, processing, and estimation.

#### (3.) Resubmissions

Throughout the year, EIA accepts data revisions of monthly data. If a revision to a monthly submission is made after the PSM has been published, it is referred to as a resubmission. The final monthly values for the previous year are published in the PSA. These values reflect all PSM resubmissions and other data corrections. The values contained in the PSA are EIA’s most accurate measure of petroleum supply activity.

#### (4.) Revision Policy

EIA will publish revised monthly crude oil production estimates going back to the Previously published Petroleum Supply Annual every month in the Petroleum Supply Navigator (<http://www.eia.gov/petroleum/supply/monthly/>). Once a year with the release of the Petroleum Supply Annual, EIA will revise up to 10 years of historical production estimates in the Petroleum Supply Navigator.

## **B. Data Assessment**

The principal objective of the PSRS is to provide an accurate picture of petroleum industry activities and of the availability of petroleum products nationwide from primary distribution channels. The PSM preliminary monthly data serve as leading indicators of the final monthly data published in the PSA. The PSM monthly data are not expected to have the same level of accuracy as the final monthly data published in the PSA. However, the preliminary monthly data are expected to exhibit like trends and product flow characteristic of the final monthly data.

To assess the accuracy of monthly statistics, initial monthly estimates published in the PSM are compared with the final monthly aggregates published in the PSA. Although final monthly data are still subject to error, they have been thoroughly reviewed and edited, they reflect all revisions made during the year, and they are considered to be the most accurate data available. The mean absolute percent error provides a measure of the average revisions relative to the aggregates being measured for a variable. The mean absolute percent error for 2007 monthly data was less than 1 percent for 50 of the 66 major petroleum variables analyzed.

### **4. Provisions Regarding Disclosure of Information**

All PSRS survey forms, with the exception of the Form EIA-814, "Monthly Imports Report," have the same general disclosure information statement. The information reported on Form EIA-814 will be considered "public information" and may be publicly released in company or individually identifiable form, and will not be protected from disclosure in identifiable form.

The information reported on Forms EIA-810 through 813, 815 through 817, 819, and 820 will be protected and not disclosed to the

public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. §552, the Department of Energy (DOE) regulations, 10 C.F.R. §1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. §1905. The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another DOE component; to any Committee of Congress, the Government Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Disclosure limitation procedures are not applied to the statistical data published from this survey's information. Thus, there may be some statistics that are based on data from fewer than three respondents, or that are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable person to estimate the information reported by a specific respondent.

In addition to the use of the information by EIA for statistical purposes, the information may be made available, upon request, to other Federal agencies authorized by law to receive such information for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Company specific data are also provided to other DOE offices for the purpose of examining specific petroleum operations in the context of emergency response planning and actual emergencies.

## Northeast Reserves

Reserves inventories are not considered to be in the commercial sector and are excluded from EIA's commercial motor gasoline and distillate fuel oil supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

### Northeast Home Heating Oil Reserve classified as ultra-low sulfur distillate (15 parts per million)

Terminal Operator	Location	Thousand Barrels
Buckeye Partners LP	Port Reading, NJ	300
Buckeye Partners LP	Groton, CT	300
Global Companies LLC	Revere, MA	400

Source: U. S. Energy Information Administration

### Northeast Regional Refined Petroleum Product Reserve motor gasoline products

Terminal Operator	Location	Thousand Barrels
BP Products North America	Carteret, NJ	200
Buckeye Terminals LLC	Port Reading, NJ	0
Buckeye Terminals LLC	Raritan Bay, NJ	500
Global Companies LLC	Revere, MA	200
South Portland Terminal LLC	South Portland, ME	99

Source: U. S. Energy Information Administration

Other reserves information from the U.S. Department of Energy, Office of Petroleum Reserves can be found at <http://energy.gov/fe/services/petroleum-reserves/>

## State of New York's Strategic Fuels Reserve Program

State reserve inventories are also not considered to be in the commercial sector and are excluded from EIA's commercial inventories and are excluded from supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Product	Location	Thousand Barrels
Motor Gasoline Blending Components	NY	58
Fuel Ethanol	NY	10
Distillate Fuel Oil, 15 ppm Sulfur and Under	NY	34

Source: New York State Energy Research & Development Authority

# Definitions of Petroleum Products and Other Terms

(Revised May 2010)

**Alcohol.** The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group;  $\text{CH}_3\text{-(CH}_2\text{)}_n\text{-OH}$  (e.g., methanol, ethanol, and tertiary butyl alcohol).

**Alkylate.** The product of an alkylation reaction. It usually refers to the high octane product from alkylation units. This alkylate is used in blending high octane gasoline.

**Alkylation.** A refining process for chemically combining isobutane with olefin hydrocarbons (e.g., propylene, butylene) through the control of temperature and pressure in the presence of an acid catalyst, usually sulfuric acid or hydrofluoric acid. The product, alkylate, an isoparaffin, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

**All Other Motor Gasoline Blending Components. See Motor Gasoline Blending Components.**

**API Gravity.** An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

$$\text{Degrees API} = \frac{141.5}{\text{sp. gr. @ } 60^\circ \text{ F}} - 131.5$$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

**Aromatics.** Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene (BTX).

**Asphalt.** A dark-brown-to-black cement-like material containing bitumens as the predominant constituent obtained by petroleum processing; used primarily for road construction. It includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. Note: The conversion factor for asphalt is 5.5 barrels per short ton.

**ASTM.** The acronym for the American Society for Testing and Materials.

**Atmospheric Crude Oil Distillation.** The refining process of separating crude oil components at atmospheric pressure by heating to temperatures of about 600 degrees Fahrenheit to 750 degrees Fahrenheit (depending on the nature of the crude oil and desired products) and subsequent condensing of the fractions by cooling.

**Aviation Gasoline (Finished).** A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating

engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. Note: Data on blending components are not counted in data on finished aviation gasoline.

**Aviation Gasoline Blending Components.** Naphthas which will be used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, reformat, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus. Oxygenates are reported as other hydrocarbons, hydrogen, and oxygenates.

**Barrel.** A unit of volume equal to 42 U.S. gallons.

**Barrels Per Calendar Day.** The amount of input that a distillation facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capability of all units at the facility under continuous operation (see **Barrels per Stream Day**) to account for the following limitations that may delay, interrupt, or slow down production:

the capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation;

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and

the reduction of capacity for unscheduled downtime due to such conditions as mechanical problems, repairs, and slowdowns.

**Barrels Per Stream Day.** The maximum number of barrels of input that a distillation facility can process within a 24-hour period when running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

**Benzene ( $\text{C}_6\text{H}_6$ ).** An aromatic hydrocarbon present in small proportion in some crude oils and made commercially from petroleum by the catalytic reforming of naphthenes in petroleum naphtha. Also made from coal in the manufacture of coke. Used as a solvent, in manufacturing detergents, synthetic fibers, and petrochemicals and as a component of high-octane gasoline.

**Biomass-Based Diesel Fuel.** Biodiesel and other renewable diesel fuel or diesel fuel blending components derived from biomass, but excluding renewable diesel fuel coprocessed with petroleum

feedstocks.

**Blending Components.** See *Motor or Aviation Gasoline Blending Components*.

**Blending Plant.** A facility which has no refining capability but is either capable of producing finished motor gasoline through mechanical blending or blends oxygenates with motor gasoline.

**Bonded Petroleum Imports.** Petroleum imported and entered into Customs bonded storage. These imports are not included in the import statistics until they are: (1) withdrawn from storage free of duty for use as fuel for vessels and aircraft engaged in international trade; or (2) withdrawn from storage with duty paid for domestic use.

**BTX.** The acronym for the commercial petroleum aromatics benzene, toluene, and xylene. See individual categories for definitions.

**Bulk Station.** A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of less than 50,000 barrels and receives its petroleum products by tank car or truck.

**Bulk Terminal.** A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of 50,000 barrels or more and/or receives petroleum products by tanker, barge, or pipeline.

**Butane ( $C_4H_{10}$ ).** A normally gaseous straight-chain or branch-chain hydrocarbon extracted from natural gas or refinery gas streams. It includes normal butane and refinery-grade butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

**Normal Butane ( $C_4H_{10}$ ).** A normally gaseous straight-chain hydrocarbon that is a colorless paraffinic gas which boils at a temperature of 31.1 degrees Fahrenheit and is extracted from natural gas or refinery gas streams.

**Refinery-Grade Butane ( $C_4H_{10}$ ).** A refinery-produced stream that is composed predominantly of normal butane and/or isobutane and may also contain propane and/or natural gasoline. These streams may also contain significant levels of olefins and/or fluorides contamination.

**Butylene ( $C_4H_8$ ).** An olefinic hydrocarbon recovered from refinery processes.

**Captive Refinery Oxygenate Plants.** Oxygenate production facilities located within or adjacent to a refinery complex.

**Catalytic Cracking.** The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

**Fresh Feeds.** Crude oil or petroleum distillates which are being fed to processing units for the first time.

**Recycled Feeds.** Feeds that are continuously fed back for additional processing.

**Catalytic Hydrocracking.** A refining process that uses hydrogen and catalysts with relatively low temperatures and high pressures for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel, and/or high grade fuel oil. The process uses one or more catalysts, depending upon product output, and can handle high sulfur feedstocks without prior desulfurization.

**Catalytic Hydrotreating.** A refining process for treating petroleum fractions from atmospheric or vacuum distillation units (e.g., naphthas, middle distillates, reformer feeds, residual fuel oil, and heavy gas oil) and other petroleum (e.g., cat cracked naphtha, coker naphtha, gas oil, etc.) in the presence of catalysts and substantial quantities of hydrogen. Hydrotreating includes desulfurization, removal of substances (e.g., nitrogen compounds) that deactivate catalysts, conversion of olefins to paraffins to reduce gum formation in gasoline, and other processes to upgrade the quality of the fractions.

**Catalytic Reforming.** A refining process using controlled heat and pressure with catalysts to rearrange certain hydrocarbon molecules, thereby converting paraffinic and naphthenic type hydrocarbons (e.g., low-octane gasoline boiling range fractions) into petrochemical feedstocks and higher octane stocks suitable for blending into finished gasoline. Catalytic reforming is reported in two categories. They are:

**Low Pressure.** A processing unit operating at less than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

**High Pressure.** A processing unit operating at either equal to or greater than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

**Charge Capacity.** The input (feed) capacity of the refinery processing facilities.

**Coal.** A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

**Commercial Kerosene-Type Jet Fuel.** See *Kerosene-Type Jet Fuel*.

**Conventional Blendstock for Oxygenate Blending (CBOB).** See *Motor Gasoline Blending Components*.

**Conventional Gasoline.** See *Motor Gasoline (Finished)*.

**Crude Oil.** A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include:

Small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled

with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included;

Small amounts of nonhydrocarbons produced from oil, such as sulfur and various metals;

Drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude oil is considered as either domestic or foreign, according to the following:

**Domestic.** Crude oil produced in the United States or from its Outer continental shelf as defined in 43 USC 1331.

**Foreign.** Crude oil produced outside the United States. Imported Athabasca hydrocarbons (tar sands from Canada) are included.

**Crude Oil, Refinery Receipts.** Receipts of domestic and foreign crude oil at a refinery. Includes all crude oil in transit except crude oil in transit by pipeline. Foreign crude oil is reported as a receipt only after entry through customs. Crude oil of foreign origin held in bonded storage is excluded.

**Crude Oil Losses.** Represents the volume of crude oil reported by petroleum refineries as being lost in their operations. These losses are due to spills, contamination, fires, etc. as opposed to refinery processing losses.

**Crude Oil Production.** The volume of crude oil produced from oil reservoirs during given periods of time. The amount of such production for a given period is measured as volumes delivered from lease storage tanks (i.e., the point of custody transfer) to pipelines, trucks, or other media for transport to refineries or terminals with adjustments for (1) net differences between opening and closing lease inventories, and (2) basic sediment and water (BS&W).

**Crude Oil Qualities.** Refers to two properties of crude oil, the sulfur content and API gravity, which affect processing complexity and product characteristics.

**Delayed Coking.** A process by which heavier crude oil fractions can be thermally decomposed under conditions of elevated temperatures and pressure to produce a mixture of lighter oils and petroleum coke. The light oils can be processed further in other refinery units to meet product specifications. The coke can be used either as a fuel or in other applications such as the manufacturing of steel or aluminum.

**Desulfurization.** The removal of sulfur, as from molten metals, petroleum oil, or flue gases. Petroleum desulfurization is a process that removes sulfur and its compounds from various streams during the refining process. Desulfurization processes include catalytic hydrotreating and other chemical/physical processes such

as adsorption. Desulfurization processes vary based on the type of stream treated (e.g., naphtha, distillate, heavy gas oil, etc.) and the amount of sulfur removed (e.g., sulfur reduction to 10 ppm). See **Catalytic Hydrotreating**.

**Disposition.** The components of petroleum disposition are stock change, crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

**Distillate Fuel Oil.** A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

**No. 1 Distillate.** A light petroleum distillate that can be used as either a diesel fuel or a fuel oil.

**No. 1 Diesel Fuel.** A light distillate fuel oil that has a distillation temperature of 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high speed diesel engines generally operated under frequent speed and load changes, such as those in city buses and similar vehicles. See **No. 1 Distillate**.

**No. 1 Fuel Oil.** A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See **No. 1 Distillate**.

**No. 2 Distillate.** A petroleum distillate that can be used as either a diesel fuel or a fuel oil.

**No. 2 Diesel Fuel.** A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines that are generally operated under uniform speed and load conditions, such as those in railroad locomotives, trucks, and automobiles. See **No. 2 Distillate**.

**Low Sulfur No. 2 Diesel Fuel.** No. 2 diesel fuel that has a sulfur level no higher than 0.05 percent by weight. It is used primarily in motor vehicle diesel engines for on-highway use.

**High Sulfur No. 2 Diesel Fuel.** No. 2 diesel fuel that has a sulfur level above 0.05 percent by weight.

**No. 2 Fuel Oil (Heating Oil).** A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in

atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See **No. 2 Distillate**.

**No. 4 Fuel.** A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms to ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

**No. 4 Diesel Fuel.** See **No. 4 Fuel**.

**No. 4 Fuel Oil.** See **No. 4 Fuel**.

**Electricity (Purchased).** Electricity purchased for refinery operations that is not produced within the refinery complex.

**Ending Stocks.** Primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in-transit by water from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage.

**ETBE (Ethyl tertiary butyl ether) (CH<sub>3</sub>)<sub>3</sub>COC<sub>2</sub>H<sub>5</sub>.** An oxygenate blend stock formed by the catalytic etherification of isobutylene with ethanol.

**Ethane (C<sub>2</sub>H<sub>6</sub>).** A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 127.48 degrees Fahrenheit. It is extracted from natural gas and refinery gas streams.

**Ether.** A generic term applied to a group of organic chemical compounds composed of carbon, hydrogen, and oxygen, characterized by an oxygen atom attached to two carbon atoms (e.g., methyl tertiary butyl ether).

**Ethylene (C<sub>2</sub>H<sub>4</sub>).** An olefinic hydrocarbon recovered from refinery processes or petrochemical processes. Ethylene is used as a petrochemical feedstock for numerous chemical applications and the production of consumer goods.

**Exports.** Shipments of crude oil and petroleum products from the 50 States and the District of Columbia to foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

**Field Production.** Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, new supply of other hydrocarbons/oxygenates and motor gasoline blending components, and fuel ethanol blended into finished motor gasoline.

**Flexicoking.** A thermal cracking process which converts heavy

hydrocarbons such as crude oil, tar sands bitumen, and distillation residues into light hydrocarbons. Feedstocks can be any pumpable hydrocarbons including those containing high concentrations of sulfur and metals.

**Fluid Coking.** A thermal cracking process utilizing the fluidized-solids technique to remove carbon (coke) for continuous conversion of heavy, low-grade oils into lighter products.

**Fresh Feed Input.** Represents input of material (crude oil, unfinished oils, natural gas liquids, other hydrocarbons and oxygenates or finished products) to processing units at a refinery that is being processed (input) into a particular unit for the first time.

Examples:

(1.) Unfinished oils coming out of a crude oil distillation unit which are input into a catalytic cracking unit are considered fresh feed to the catalytic cracking unit.

(2.) Unfinished oils coming out of a catalytic cracking unit being looped back into the same catalytic cracking unit to be reprocessed are not considered fresh feed.

**Fuel Ethanol (C<sub>2</sub>H<sub>5</sub>OH).** An anhydrous alcohol (ethanol with less than 1% water) intended for gasoline blending as described in Oxygenates definition.

**Fuels Solvent Deasphalting.** A refining process for removing asphalt compounds from petroleum fractions, such as reduced crude oil. The recovered stream from this process is used to produce fuel products.

**Gas Oil.** A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. It derives its name from having originally been used in the manufacture of illuminating gas. It is now used to produce distillate fuel oils and gasoline.

**Gasohol.** A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration of 10 percent or less by volume. Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside carbon monoxide nonattainment areas are included in data on oxygenated gasoline. See **Oxygenates**.

**Gasoline Blending Components.** Naphthas which will be used for blending or compounding into finished aviation or motor gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

**Gasoline Treated as Blendstock (GTAB).** See **Motor Gasoline Blending Components**.

**Gross Input to Atmospheric Crude Oil Distillation Units.** Total input to atmospheric crude oil distillation units. Includes all crude oil, lease condensate, natural gas plant liquids, unfinished oils, liquefied refinery gases, slop oils, and other liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

**Heavy Gas Oil.** Petroleum distillates with an approximate boiling



range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

**High-Sulfur Distillate Fuel Oil.** Distillate fuel oil having sulfur content greater than 500 ppm.

**Hydrogen.** The lightest of all gases, occurring chiefly in combination with oxygen in water; exists also in acids, bases, alcohols, petroleum, and other hydrocarbons.

**Idle Capacity.** The component of operable capacity that is not in operation and not under active repair, but capable of being placed in operation within 30 days; and capacity not in operation but under active repair that can be completed within 90 days.

**Imported Crude Oil Burned As Fuel.** The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

**Imports.** Receipts of crude oil and petroleum products into the 50 States and the District of Columbia from foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

**Isobutane ( $C_4H_{10}$ ).** A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams.

**Isobutylene ( $C_4H_8$ ).** An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

**Isohexane ( $C_6H_{14}$ ).** A saturated branch-chain hydrocarbon. It is a colorless liquid that boils at a temperature of 156.2 degrees Fahrenheit.

**Isomerization.** A refining process which alters the fundamental arrangement of atoms in the molecule without adding or removing anything from the original material. Used to convert normal butane into isobutane ( $C_4$ ), an alkylation process feedstock, and normal pentane and hexane into isopentane ( $C_5$ ) and isohexane ( $C_6$ ), high-octane gasoline components.

**Isopentane.** See *Natural Gasoline and Isopentane*.

**Kerosene.** A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. See *Kerosene-Type Jet Fuel*.

**Kerosene-Type Jet Fuel.** A kerosene-based product having a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point and a final maximum boiling point of 572 degrees Fahrenheit and meeting ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used for commercial and military turbojet and turboprop aircraft engines.

**Commercial.** Kerosene-type jet fuel intended for use in commercial aircraft.

**Military.** Kerosene-type jet fuel intended for use in military aircraft.

**Lease Condensate.** A mixture consisting primarily of pentanes and heavier hydrocarbons which is recovered as a liquid from natural gas in lease separation facilities. This category excludes natural gas liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities. See *Natural Gas Liquids*.

**Light Gas Oils.** Liquid Petroleum distillates heavier than naphtha, with an approximate boiling range from 401 degrees Fahrenheit to 650 degrees Fahrenheit.

**Liquefied Petroleum Gases (LPG).** A group of hydrocarbon-based gases derived from crude oil refining or natural gas fractionation. They include: ethane, ethylene, propane, propylene, normal butane, butylene, isobutane, and isobutylene. For convenience of transportation, these gases are liquefied through pressurization.

**Liquefied Refinery Gases (LRG).** Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration, they are retained in the liquid state. The reported categories are ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene. Excludes still gas.

**Low-Sulfur Distillate Fuel Oil.** Distillate fuel oil having sulfur content greater than 15 ppm to 500 ppm. Low sulfur distillate fuel oil also includes product with sulfur content equal to or less than 15 ppm if the product is intended for pipeline shipment and the pipeline has a sulfur specification below 15 ppm.

**Lubricants.** Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacture of other products, or used as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Lubricants include all grades of lubricating oils from spindle oil to cylinder oil and those used in greases.

**Merchant Oxygenate Plants.** Oxygenate production facilities that are not associated with a petroleum refinery. Production from these facilities is sold under contract or on the spot market to refiners or other gasoline blenders.

**Methanol ( $CH_3OH$ ).** A light, volatile alcohol intended for gasoline blending as described in Oxygenate definition.

**Middle Distillates.** A general classification of refined petroleum products that includes distillate fuel oil and kerosene.

**Military Kerosene-Type Jet Fuel.** See *Kerosene-Type Jet Fuel*.

**Miscellaneous Products.** Includes all finished products not classified elsewhere (e.g., petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils). Note:

Beginning with January 2004 data, naphtha-type jet fuel is included in Miscellaneous Products.

**Motor Gasoline (Finished).** A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as defined in ASTM Specification D 4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10 percent recovery point to 365 to 374 degrees Fahrenheit at the 90 percent recovery point. "Motor Gasoline" includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline. Note: E85 is included only in volumetric data on finished motor gasoline production and other components of product supplied.

**Conventional Gasoline.** Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. Note: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

**Ed 55 and Lower.** Finished conventional motor gasoline blended with a maximum of 55 volume percent denatured fuel ethanol.

**Greater than Ed55.** Finished conventional motor gasoline blended with denatured fuel ethanol where the volume percent of denatured fuel ethanol exceeds 55%.

**OPRG.** "Oxygenated Fuels Program Reformulated Gasoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control area.

**Oxygenated Gasoline (Including Gasohol).** Oxygenated gasoline includes all finished motor gasoline, other than reformulated gasoline, having oxygen content of 2.0 percent or higher by weight. Gasohol containing a minimum 5.7 percent ethanol by volume is included in oxygenated gasoline. Oxygenated gasoline was reported as a separate product from January 1993 until December 2003 inclusive. Beginning with monthly data for January 2004, oxygenated gasoline is included in conventional gasoline. Historical data for oxygenated gasoline excluded Federal Oxygenated Program Reformulated Gasoline (OPRG). Historical oxygenated gasoline data also excluded other reformulated gasoline with a seasonal oxygen requirement regardless of season.

**Reformulated Gasoline.** Finished gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. It includes gasoline produced to meet or exceed emissions performance and benzene content standards of federal-program reformulated gasoline even though the gasoline

may not meet all of the composition requirements (e.g., oxygen content) of federal-program reformulated gasoline. Note: This category includes Oxygenated Fuels Program Reformulated Gasoline (OPRG). Reformulated gasoline excludes Reformulated Blendstock for Oxygenate Blending (RBOB) and Gasoline Treated as Blendstock (GTAB).

**Reformulated (Blended with Alcohol).** Reformulated gasoline blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content.

**Reformulated (Blended with Ether).** Reformulated gasoline blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content.

**Reformulated (Non-Oxygenated).** Reformulated gasoline without added ether or alcohol components.

**Motor Gasoline Blending.** Mechanical mixing of motor gasoline blending components, and oxygenates when required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

**Motor Gasoline Blending Components.** Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock for oxygenate blending (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. Note: Oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

**Conventional Blendstock for Oxygenate Blending (CBOB).** Conventional gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. CBOB must become conventional gasoline after blending with oxygenates. Motor gasoline blending components that require blending other than with oxygenates to become finished conventional gasoline are reported as All Other Motor Gasoline Blending Components. Excludes reformulated blendstock for oxygenate blending (RBOB).

**Gasoline Treated as Blendstock (GTAB).** Non-certified Foreign Refinery gasoline classified by an importer as blendstock to be either blended or reclassified with respect to reformulated or conventional gasoline. GTAB was classified on EIA surveys as either reformulated or conventional based on emissions performance and the intended end use in data through the end of December 2009. Designation of GTAB as reformulated or conventional was discontinued beginning with data for January 2010. GTAB was reported as a single product beginning with data for January 2010. GTAB data for January 2010 and later months is presented as conventional

motor gasoline blending components when reported as a subset of motor gasoline blending components.

**Reformulated Blendstock for Oxygenate Blending (RBOB).** Specially produced reformulated gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. Includes RBOB used to meet requirements of the Federal reformulated gasoline program and other blendstock intended for blending with oxygenates to produce finished gasoline that meets or exceeds emissions performance requirements of Federal reformulated gasoline (e.g., California RBOB and Arizona RBOB). Excludes conventional gasoline blendstocks for oxygenate blending (CBOB).

**RBOB for Blending with Alcohol.** Motor gasoline blending components intended to be blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

**RBOB for Blending with Ether.** Motor gasoline blending components intended to be blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

**All Other Motor Gasoline Blending Components.** Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. Includes receipts and inputs of Gasoline Treated as Blendstock (GTAB). Excludes conventional blendstock for oxygenate blending (CBOB), reformulated blendstock for oxygenate blending, oxygenates (e.g. fuel ethanol and methyl tertiary butyl ether), butane, and pentanes plus.

**MTBE (Methyl tertiary butyl ether)  $(CH_3)_3COCH_3$ .** An ether intended for gasoline blending as described in Oxygenate definition.

**Naphtha.** A generic term applied to a petroleum fraction with an approximate boiling range between 122 degrees Fahrenheit and 400 degrees Fahrenheit.

**Naphtha Less Than 401° F.** See *Petrochemical Feedstocks*.

**Naphtha-Type Jet Fuel.** A fuel in the heavy naphtha boiling range having an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees Fahrenheit, and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used primarily for military turbojet and turboprop aircraft engines because it has a lower freeze point than other aviation fuels and meets engine requirements at high altitudes and speeds. Note: Beginning with January 2004 data, naphtha-type jet fuel is included in *Miscellaneous Products*.

**Natural Gas.** A gaseous mixture of hydrocarbon compounds, the primary one being **methane**.

**Natural Gas Field Facility.** A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, normal butane, pentanes plus, etc., and to control the quality of natural gas to be marketed.

**Natural Gas Liquids.** Those hydrocarbons in natural gas that are separated from the gas as liquids through the process of absorption, condensation, adsorption, or other methods in gas processing or cycling plants. Generally such liquids consist of propane and heavier hydrocarbons and are commonly referred to as lease condensate, natural gasoline, and liquefied petroleum gases. Natural gas liquids include natural gas plant liquids (primarily ethane, propane, butane, and isobutane; see *Natural Gas Plant Liquids*) and lease condensate (primarily pentanes produced from natural gas at lease separators and field facilities; see *Lease Condensate*).

**Natural Gas Plant Liquids.** Those hydrocarbons in natural gas that are separated as liquids at natural gas processing plants, fractionating and cycling plants, and, in some instances, field facilities. Lease condensate is excluded. Products obtained include ethane; liquefied petroleum gases (propane, butanes, propane-butane mixtures, ethane-propane mixtures); isopentane; and other small quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

**Natural Gas Processing Plant.** Facilities designed to recover natural gas liquids from a stream of natural gas that may or may not have passed through lease separators and/or field separation facilities. These facilities control the quality of the natural gas to be marketed. Cycling plants are classified as gas processing plants.

**Natural Gasoline and Isopentane.** A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon,  $(C_5H_{12})$ , obtained by fractionation of natural gasoline or isomerization of normal pentane.

**Net Receipts.** The difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge.

**Normal Butane.** See *Butane*.

**OPEC.** An intergovernmental organization whose stated objective is to coordinate and unify petroleum policies of member countries. It was created at the Baghdad Conference on September 10–14, 1960. Current members (with years of membership) include Algeria (1969-present), Angola (2007-present), Ecuador (1973-1992 and 2007-present), Gabon (1975-1994 and July, 2016-present), Indonesia (1962-2008 and January, 2016-November, 2016), Iran (1960-present), Iraq (1960-present), Kuwait (1960-present), Libya (1962-present), Nigeria (1971-present), Qatar (1961-present), Saudi Arabia (1960-present), United Arab Emirates (1967-present), and Venezuela (1960-present).

**Operable Capacity.** The amount of capacity that, at the beginning of the period, is in operation; not in operation and not under active repair, but capable of being placed in operation within 30 days; or not in operation but under active repair that can be completed within 90 days. Operable capacity is the sum of the operating and idle capacity and is measured in barrels per calendar day or barrels per stream day.

**Operable Utilization Rate.** Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operable refining capacity of the units.

**Operating Capacity.** The component of operable capacity that is in operation at the beginning of the period.

**Operating Utilization Rate.** Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operating refining capacity of the units.

**Other Hydrocarbons.** Materials received by a refinery and consumed as a raw material. Includes hydrogen, coal tar derivatives and gilsonite. Excludes natural gas used for fuel or hydrogen feedstock.

**Other Oils Equal To or Greater Than 401° F.** See *Petrochemical Feedstocks*.

**Other Oxygenates.** Other aliphatic alcohols and aliphatic ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

**Oxygenated Gasoline.** See *Motor Gasoline (Finished)*.

**Oxygenates.** Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Fuel Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

**Fuel Ethanol.** Blends of up to 10 percent by volume anhydrous ethanol (200 proof) (commonly referred to as the “gasohol waiver”).

**Methanol.** Blends of methanol and gasoline-grade tertiary butyl alcohol (GTBA) such that the total oxygen content does not exceed 3.5 percent by weight and the ratio of methanol to GTBA is less than or equal to 1. It is also specified that this blended fuel must meet ASTM volatility specifications (commonly referred to as the “ARCO” waiver).

Blends of up to 5.0 percent by volume methanol with a minimum of 2.5 percent by volume cosolvent alcohols having a carbon number of 4 or less (i.e., ethanol, propanol, butanol, and/or GTBA). The total oxygen must not exceed 3.7 percent by weight, and the blend must meet ASTM volatility specifications as well as phase separation and alcohol purity specifications (commonly referred to as the “DuPont” waiver).

**MTBE (Methyl tertiary butyl ether).** Blends up to 15.0 percent by volume MTBE which must meet the ASTM D4814 specifications. Blenders must take precautions that

the blends are not used as base gasolines for other oxygenated blends (commonly referred to as the “Sun” waiver).

**Pentanes Plus.** A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

**Persian Gulf.** The countries that comprise the Persian Gulf are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

**Petrochemical Feedstocks.** Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are “Naphtha Less Than 401° F” and “Other Oils Equal To or Greater Than 401° F.”

**Naphtha Less Than 401° F.** A naphtha with a boiling range of less than 401 degrees Fahrenheit that is intended for use as a petrochemical feedstock.

**Other Oils Equal To or Greater Than 401° F.** Oils with a boiling range equal to or greater than 401 degrees Fahrenheit that are intended for use as a petrochemical feedstock.

**Petroleum Administration for Defense (PAD) Districts.** Geographic aggregations of the 50 States and the District of Columbia into five districts by the Petroleum Administration for Defense in 1950. These districts were originally defined during World War II for purposes of administering oil allocation.

**Petroleum Coke.** A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

**Catalyst Coke.** In many catalytic operations (e.g., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. This carbon or coke is not recoverable in a concentrated form.

**Marketable Coke.** Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This “green” coke may be sold as is or further purified by calcining.

**Petroleum Products.** Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

**Pipeline (Petroleum).** Crude oil and product pipelines used to transport crude oil and petroleum products respectively, (including interstate, intrastate, and intracompany pipelines) within the 50 States and the District of Columbia.

**Plant Condensate.** One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

**Processing Gain.** The volumetric amount by which total output is greater than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a lower specific gravity than the crude oil processed.

**Processing Loss.** The volumetric amount by which total refinery output is less than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a higher specific gravity than the crude oil processed.

**Product Supplied, Crude Oil.** Crude oil burned on leases and by pipelines as fuel.

**Production Capacity.** The maximum amount of product that can be produced from processing facilities.

**Products Supplied.** Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted for crude oil, (plus net receipts when calculated on a PAD District basis), minus stock change, minus crude oil losses, minus refinery inputs, minus exports.

**Propane ( $C_3H_8$ ).** A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

**Propylene ( $C_3H_6$ ).** An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

**Propylene ( $C_3H_6$ ) (nonfuel use).** Propylene that is intended for use in nonfuel applications such as petrochemical manufacturing. Nonfuel use propylene includes chemical-grade propylene, polymer-grade propylene, and trace amounts of propane. Nonfuel use propylene also includes the propylene component of propane/propylene mixes where the propylene will be separated from the mix in a propane/propylene splitting process. Excluded is the propylene component of propane/propylene mixes where the propylene component of the mix is intended for sale into the fuel market.

**Refinery.** An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and oxygenates.

**Refinery-Grade Butane.** See *Butane*.

**Refinery Input, Crude Oil.** Total crude oil (domestic plus foreign) input to crude oil distillation units and other refinery processing units (cokers, etc.).

**Refinery Input, Total.** The raw materials and intermediate materials processed at refineries to produce finished petroleum products. They include crude oil, products of natural gas processing plants, unfinished oils, other hydrocarbons and oxygenates, motor gasoline and aviation gasoline blending components and finished petroleum products.

**Refinery Production.** Petroleum products produced at a refinery or blending plant. Published production of these products equals refinery production minus refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. Refinery production of unfinished oils, and motor and aviation gasoline blending components appear on a net basis under refinery input.

**Refinery Yield.** Refinery yield (expressed as a percentage) represents the percent of finished product produced from input of crude oil and net input of unfinished oils. It is calculated by dividing the sum of crude oil and net unfinished input into the individual net production of finished products. Before calculating the yield for finished motor gasoline, the input of natural gas liquids, other hydrocarbons and oxygenates, and net input of motor gasoline blending components must be subtracted from the net production of finished motor gasoline. Before calculating the yield for finished aviation gasoline, input of aviation gasoline blending components must be subtracted from the net production of finished aviation gasoline.

**Reformulated Blendstock for Oxygenate Blending (RBOB).** See *Motor Gasoline Blending Components*.

**Reformulated Gasoline.** See *Motor Gasoline (Finished)*.

**Renewable Fuels (Other).** Fuels and fuel blending components, except biomass-based diesel fuel, renewable diesel fuel, and fuel ethanol, produced from renewable biomass.

**Residual Fuel Oil.** A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

**Residuum.** Residue from crude oil after distilling off all but the heaviest components, with a boiling range greater than 1000 degrees Fahrenheit.

**Road Oil.** Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most liquid, to 5, the most viscous.

**Shell Storage Capacity.** The design capacity of a petroleum storage tank which is always greater than or equal to working storage capacity. Special Naphthas. All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

**Steam (Purchased).** Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

**Still Gas (Refinery Gas).** Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is used as a refinery fuel and a petrochemical feedstock. The conversion factor is 6 million BTU's per fuel oil equivalent barrel.

**Stock Change.** The difference between stocks at the beginning of the reporting period and stocks at the end of the reporting period. Note: A negative number indicates a decrease (i.e., a drawdown) in stocks and a positive number indicates an increase (i.e., a buildup) in stocks during the reporting period.

**Strategic Petroleum Reserve (SPR).** Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

**Sulfur.** A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No. 2 Distillate fuel is currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

**Supply.** The components of petroleum supply are field production, refinery production, imports, and net receipts when calculated on a PAD District basis.

**TAME (Tertiary amyl methyl ether)  $(CH_3)_2(C_2H_5)COCH_3$ .** An oxygenate blend stock formed by the catalytic etherification of isoamylene with methanol.

**Tank Farm.** An installation used by gathering and trunk pipeline companies, crude oil producers, and terminal operators (except refineries) to store crude oil.

**Tanker and Barge.** Vessels that transport crude oil or petroleum products. Data are reported for movements between PAD Districts; from a PAD District to the Panama Canal; or from the Panama Canal

to a PAD District.

**TBA (Tertiary butyl alcohol)  $(CH_3)_3COH$ .** An alcohol primarily used as a chemical feedstock, a solvent or feedstock for isobutylene production for MTBE; produced as a co-product of propylene oxide production or by direct hydration of isobutylene.

**Thermal Cracking.** A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking includes gas oil, visbreaking, fluid coking, delayed coking, and other thermal cracking processes (e.g., flexicoking). See individual categories for definition.

**Toluene  $(C_6H_5CH_3)$ .** Colorless liquid of the aromatic group of petroleum hydrocarbons, made by the catalytic reforming of petroleum naphthas containing methyl cyclohexane. A high-octane gasoline-blending agent, solvent, and chemical intermediate, base for TNT.

**Ultra-Low Sulfur Distillate Fuel Oil.** Distillate fuel oil having sulfur content of 15 ppm or lower. Ultra-low sulfur distillate fuel oil that will be shipped by pipeline must satisfy the sulfur specification of the shipping pipeline if the pipeline specification is below 15 ppm. Distillate fuel oil intended for pipeline shipment that fails to meet a pipeline sulfur specification that is below 15 ppm will be classified as low-sulfur distillate fuel oil.

**Unaccounted for Crude Oil.** Represents the arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of crude oil production plus imports minus changes in crude oil stocks. The calculated disposition of crude oil is the sum of crude oil input to refineries, crude oil exports, crude oil burned as fuel, and crude oil losses.

**Unfinished Oils.** All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of crude oil and include naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

**Unfractionated Streams.** Mixtures of unsegregated natural gas liquid components excluding those in plant condensate. This product is extracted from natural gas.

**United States.** The United States is defined as the 50 States and the District of Columbia.

**Vacuum Distillation.** Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique with its relatively low temperatures prevents cracking or decomposition of the charge stock.

**Visbreaking.** A thermal cracking process in which heavy atmospheric or vacuum-still bottoms are cracked at moderate temperatures to increase production of distillate products and reduce viscosity of the distillation residues.

**Wax.** A solid or semi-solid material at 77 degrees Fahrenheit consisting of a mixture of hydrocarbons obtained or derived from petroleum fractions, or through a Fischer-Tropsch type process, in which the straight-chained paraffin series predominates. This includes all marketable wax, whether crude or refined, with a congealing point

(ASTM D 938) between 80 (or 85) and 240 degrees Fahrenheit and a maximum oil content (ASTM D 3235) of 50 weight percent.

**Working Storage Capacity.** The difference in volume between the maximum safe fill capacity and the quantity below which pump suction is ineffective (bottoms).

**Xylene ( $C_6H_4(CH_3)_2$ ).** Colorless liquid of the aromatic group of hydrocarbons made the catalytic reforming of certain naphthenic petroleum fractions. Used as high-octane motor and aviation gasoline blending agents, solvents, chemical intermediates. Isomers are metaxylene, orthoxylene, paraxylene.